

# RIWAYAT HIDUP



## A. Identitas Diri

|    |                             |                                                                                                                                                                                                                                                                           |
|----|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Nama Lengkap (dengan gelar) | Mohamad Nasyir Tamara, S.ST., M.T.                                                                                                                                                                                                                                        |
| 2  | Jabatan Fungsional          | Lektor                                                                                                                                                                                                                                                                    |
| 3  | Jabatan                     | Kepala lab Kendaraan Robotik (2015 - 2019)<br>Ketua Program Studi Teknik Mekatronika PENS (2020 - 2024)<br>Kepala Departemen Teknik Mekanika dan Energi (2024 - sekarang)                                                                                                 |
| 4  | NIP/NIK/Identitas Lainnya   | 198508072015041003                                                                                                                                                                                                                                                        |
| 5  | NIDN                        | 0007088504                                                                                                                                                                                                                                                                |
| 6  | Tempat dan Tanggal Lahir    | Kediri, 7 Agustus 1985                                                                                                                                                                                                                                                    |
| 7  | Alamat Rumah                | Jl. Cempaka 55 Tambak Rejo kec. Gurah – Kediri                                                                                                                                                                                                                            |
| 8  | No. Telepon/Faks/HP         | 0812 3289 2500                                                                                                                                                                                                                                                            |
| 9  | Alamat Kantor               | Kampus PENS, Jl. Raya ITS Sukolilo Surabaya                                                                                                                                                                                                                               |
| 10 | No. Telp/Faks               | +62-3-5947280/+62-31-5946114                                                                                                                                                                                                                                              |
| 11 | Alamat Email/website        | <a href="mailto:nasir_meka@eepis-its.edu">nasir_meka@eepis-its.edu</a><br><a href="http://nasir_meka.lecturer.pens.ac.id/">http://nasir_meka.lecturer.pens.ac.id/</a>                                                                                                     |
| 12 | Pendidikan                  | <ul style="list-style-type: none"> <li>- MI/TPI Tambak Rejo (SD)</li> <li>- SMP Negeri 1 Gurah (SMP)</li> <li>- SMA Negeri 2 Pare (SMA)</li> <li>- Politeknik Elektronika Negeri Surabaya (S1/D4)</li> <li>- Institut Teknologi Sepuluh Nopember Surabaya (S2)</li> </ul> |
| 14 | Mata Kuliah yang diampu     | Prak. Robotika 1<br>Prak. Robotika 2<br>Prak. Kendali Adaptif<br>Prak. Kendali Cerdas<br>Prak. Elektronika Analog 1<br>Prak. Elektronika Analog 2<br>Prak. Elektronika Analog 3<br>Rekayasa Manufaktur 1                                                                  |

|  |  |                                                                                                                                                     |
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|  |  | Prak. Rekayasa Manufaktur 1<br>Prak. Rekayasa Manufaktur 2<br>Prak. CNC 1<br>Prak. CNC 2<br>Standar Internasional & K3<br>Desain Sistem Mekatronika |
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## B. Riwayat Pendidikan

|                                |                                                                                                                           |                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                | S-1                                                                                                                       | S-2                                                                                         |
| Nama Perguruan Tinggi          | PENS                                                                                                                      | ITS                                                                                         |
| Bidang Ilmu                    | Mekatronika                                                                                                               | Sistem Manufaktur                                                                           |
| Tahun Masuk-Lulus              | 2006 – 2010                                                                                                               | 2012 – 2014                                                                                 |
| Judul Skripsi/Thesis/Disertasi | Design and Realization of A Haptic Crane Force Control for Application of Material Handling by using Active Force Control | The application of active force control of an automatic gun turret in ground combat vehicle |
| Nama Pembimbing/Promotor       | Endah SN, ST, MT<br>Didik Setyo, ST, M.Eng                                                                                | Bambang Pramujati, S.T., M.Sc.Eng., Ph.D<br>Hendro Nurhadi, Dipl.-Ing., Ph.D                |

## C. Pengalaman Penelitian

| No | Penelitian                                                                                                                                                                  | Tahun | Pendanaan |             |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------------|
|    |                                                                                                                                                                             |       | Sumber    | Jumlah      |
| 1  | Rancang Bangun IINUSAT                                                                                                                                                      | 2011  | DIKTI     | 600.000.000 |
| 2  | Karakterisasi dan Pengembangan Sensor AHRS sebagai justifikasi penggunaannya pada Proyek UAV, Roket, dan Nano Satelit di Pusat Riset Teknologi Pertahanan dan Keamanan PENS | 2012  | DIKTI     | 75.000.000  |
| 3  | High Rate Attitude Data Monitoring and Surveillance Payload using AX.25 Protocol Communication for Packet Data Transmission                                                 | 2013  | DIKTI     | 8.600.000   |
| 4  | Rancang Bangun Sistem Kendali Turret Ranpur Kaliber 20mm                                                                                                                    | 2014  | INSINAS   | 600.000.000 |
| 5  | Application of An Active Force Control for Automatic Turret Gun in ground combat vehicle                                                                                    | 2015  | PENS      | 8.600.000   |
| 6  | Efektifitas Lingkungan Pembelajaran                                                                                                                                         | 2015  | PENS      | 22.500.000  |

|    |                                                                                                                                                                       |      |             |               |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|---------------|
|    | Teknik Kendali Cerdas dan Teknik Kendali Adaptif Menggunakan Challenge Based Learning                                                                                 |      |             |               |
| 7  | Design and realization of Ubiquitous Robotics for victim searching in Earth and Tsunami                                                                               | 2016 | RISTEKDIKTI | 100.000.000   |
| 8  | Design and realization of Ubiquitous Robotics for victim searching in Earth and Tsunami                                                                               | 2017 | RISTEKDIKTI | 195.000.000   |
| 9  | Detas: Deep Tracking And Servoing untuk sistem Targetting Turret gun Otomatis                                                                                         | 2017 | PENS        | 16.000.000    |
| 10 | Design, Control And Analysis Of Forklift AGV Base Platform For Stability Movement                                                                                     | 2018 | PENS        | 25.000.000    |
| 11 | CPPBT "Industrial Intelligent Automatic Guided Vehicle-iiAGV"                                                                                                         | 2018 | RISTEKDIKTI | 346.600.000   |
| 12 | PPBT "Industrial Intelligent Automatic Guided Vehicle-iiAGV"                                                                                                          | 2019 | RISTEKDIKTI | 327.530.000   |
| 13 | PPTI "PRIMO (PENS Robotics Intelligent Mover) Sebagai Sarana Transportasi Modern Di Masa Depan Untuk Meningkatkan Produktivitas Logistik Di Berbagai Sektor Industri" | 2019 | RISTEKDIKTI | 300.000.000   |
| 14 | Design And Realization AGV Medic for Transporting Food and Medicine for Supporting Medical Personal in The Era of Covid 19 Pandemic                                   | 2020 | PENS        | 64.900.000    |
| 15 | Pengembangan Laboratorium Teaching Factory Guna Mendukung Produksi Produk Inovasi                                                                                     | 2020 | DIKSI       | 1.917.116.000 |
| 16 | Rancang Bangun PRIMO-REMEC (Pens Robotic Intelligent Mover Reconfigurable Mecanum) Guna Meningkatkan Manuverability dalam Penangan Material di Industri               | 2021 | PENS        | 25.800.000    |
| 17 | Implementasi Model Pembelajaran Teaching Factory Dalam Produksi Robot AGV Bersama Mitra Industri Guna Peningkatan Kompetensi Mahasiswa                                | 2021 | DIKSI       | 1.610.280.000 |
| 18 | Rancang Bangun PRIMO Medic untuk membantu distribusi kebutuhan medis ruang karantina di Rumah Sakit Bhayangkara Lumajang                                              | 2021 | Bank BNI    | 240.394.000   |
| 19 | Rancang bangun Automatic Guided                                                                                                                                       | 2022 | DIKSI       | 10.836.000    |

|    |                                                                                                                                                              |      |                |               |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------|---------------|
|    | Vehicle (AGV) Guna Mendukung Efektivitas produksi pada Transportasi Logistik di lingkungan Industri                                                          |      |                |               |
| 20 | Perencanaan dan Implementasi Project Based Learning untuk Program Studi Teknik Mekatronika PENS                                                              | 2022 | LOKAL          | 15.000.000    |
| 21 | Rancang Bangun Robot <i>Guideless</i> Agv Dengan Kapasitas Angkut 100 Kg (Primo Agv – Produk Unggulan PENS)                                                  | 2023 | LOKAL          | 22.000.000    |
| 22 | Industrial Intelligent Forklift AGV dengan fitur pemuatan otomatis (Matching Fund 2023)                                                                      | 2023 | DIKSI          | 529.200.000   |
| 23 | Program Peningkatan Kesiapbekerjaan Lulusan Pendidikan Tinggi Vokasi (PPKL-PTV) – Competitive Fund 2023                                                      | 2023 | DIKSI          | 788.720.000   |
| 24 | Pengembangan Teknologi ROV untuk Eksplorasi dan Inspeksi Bawah Laut Guna Meningkatkan Daya Saing Produk Teknologi Dalam Negeri                               | 2024 | DIKSI          | 2.541.771.060 |
| 25 | Robotani: Sistem Cerdas Teknologi Pertanian Melalui Pengembangan Robot Penanam Padi Untuk Akselerasi Pertumbuhan Ekonomi Menuju Kemandirian Pangan Indonesia | 2025 | BERDIKARI LPDP | 380.750.000   |

#### D. Pengalaman Pengabdian kepada Masyarakat

| No | Tahun | Judul Pengabdian kepada Masyarakat                                                                                                                             | Sumber    | Jumlah (juta) |
|----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| 1  | 2013  | Pelatihan Menggunakan Autocad untuk siswa putus sekolah                                                                                                        | PNBP PENS | 10.000.000    |
| 2  | 2015  | workshop pembuatan software GUI sebagai sarana monitoring dan pengolahan Data Mikrokontroler pada siswa SMKN 2 Surabaya                                        | PNBP PENS | 12.000.000    |
| 3  | 2016  | Workshop telemetri untuk siswa meningkatkan pengetahuan dalam bidang rekayasa teknologi guna menyongsong kemandirian teknologi khususnya bidang telemetri data | PNBP PENS | 12.000.000    |
| 4  | 2016  | Pelatihan pengoperasian mesin laser cutting untuk penunjang ketrampilan kerja                                                                                  | PNBP PENS | 12.000.000    |

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| 5  | 2017 | Workshop Mikrokontroller Dan Telemeteri Untuk Siswa SMKN 1 Glagah Banyuwangi Sebagai Sarana Pengenalan Teknologi Sensor Dengan Graphical User Interface (RG sensor fusion) | PNBP PENS  | 12.000.000 |
| 6  | 2017 | Workshop Penggunaan Software Autodesk Inventor Untuk Siswa SMKN 1 Glagah Banyuwangi Sebagai Sarana Penunjang Keterampilan Gambar Teknik (Prodi D4 Teknik Mekatronika)      | PNBP PENS  | 17.000.000 |
| 7  | 2018 | Workshop Mikrokontroler dan Telemetri untuk siswa SMKN 1 Glagah Banyuwangi sebagai sarana pengenalan teknologi sensor dengan GUI                                           | PNBP PENS  | 15.000.000 |
| 8  | 2018 | Pelatihan Arduino IDE dan GUI Processing Software di SMKN 1 Blitar sebagai pengenalan Teknologi Sensor dengan GUI                                                          | PNBP PENS  | 15.000.000 |
| 9  | 2019 | Prototip Mesin Pencacah Sampah Plastik Dalam Rangka Membantu Meningkatkan Kesejahteraan Masyarakat Di Kawasan- Pemulung Surabaya                                           | PNBP PENS  | 15.000.000 |
| 10 | 2020 | Produksi Mesin Ventilator Darurat Berbasis Iot Untuk Membantu Penanganan Pasien Di Masa Pandemi Covid 19 Indonesia                                                         | PNBP PENS  | 30.000.000 |
| 11 | 2021 | Sistem Monitoring Komposer Untuk Komposting Pengelolaan Sampah Rumah Tangga                                                                                                | Lokal PENS | 30.000.000 |
| 12 | 2022 | Sosialisasi Cara Instalasi Dan Pemeliharaan Stb (Set Top Box) Untuk Mendukung Percepatan Migrasi Ke Tv Digital                                                             | Lokal PENS | 12.000.000 |
| 13 | 2022 | Pembuatan Sumur Bor di Desa Sumber Logan, Kecamatan Karang Penang, Kabupaten Sampang, Madura                                                                               | PENS       | 56.005.000 |
| 14 | 2023 | Penerapan Teknologi Digital 3D untuk Optimalisasi Pemasaran Fashion Lokal Pada UMKM Sarekat Jaya Kekean                                                                    | Lokal PENS | 12.000.000 |
| 15 | 2024 | Pembuatan dan implementasi sistem charging station solar panel untuk                                                                                                       | Lokal PENS | 15.000.000 |

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|  |  | perangkat handphone di Balai Desa Gebang Putih, Sukolilo Surabaya |  |  |
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#### E. Publikasi / Seminar

| No | Nama Pertemuan Ilmiah/seminar                                                            | Judul Artikel Ilmiah                                                                                                         | Link                                                                                                    | Waktu dan Tempat             |
|----|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------|
| 1  | Inagentsys                                                                               | Control Simulation of An Automatic Turret Gun Based on Force Control Method                                                  | <a href="https://ieeexplore.ieee.org/document/7005718">https://ieeexplore.ieee.org/document/7005718</a> | 19-21 Agustus 2014, Bandung  |
| 2  | International Electronics Symposium                                                      | Design and Realization of An Automatic Turret Gun (Study Comparison of A Various Control Scheme for An Automatic Turret Gun) |                                                                                                         | 3-4 Desember 2014, Surabaya  |
| 3  | Knowledge Creation and Intelligent Computing (KCIC)                                      | Adaptive Morphology-based Design of Multi- Locomotion Flying and Crawling Robot "PENS-Flycrawl"                              | <a href="https://ieeexplore.ieee.org/document/7883629">https://ieeexplore.ieee.org/document/7883629</a> | 15-17 November 2016, Manado  |
| 4  | Knowledge Creation and Intelligent Computing (KCIC)                                      | Optimal cone of relative position Acquisition Module of Multi Mobile Robot                                                   | <a href="https://ieeexplore.ieee.org/document/7883631">https://ieeexplore.ieee.org/document/7883631</a> | 15-17 November 2016, Manado  |
| 5  | International Symposium on Electronics and Smart Devices (ISESD)                         | Gun Turret Automatic Weapon Control System Design and Realization                                                            | <a href="https://ieeexplore.ieee.org/document/7886687">https://ieeexplore.ieee.org/document/7886687</a> | 29-30 November 2016, Bandung |
| 6  | International Electronics Symposium on Engineering Technology and Applications (IES-ETA) | Multi-locomotion robot function analysis based on adaptive morphology methodology                                            | <a href="https://ieeexplore.ieee.org/document/8240415">https://ieeexplore.ieee.org/document/8240415</a> | 2017                         |
| 7  | International Conference on Electrical                                                   | Disaster swarm robot development: On going project                                                                           | <a href="https://ieeexplore.ieee.org/document/8253258">https://ieeexplore.ieee.org/document/8253258</a> | 2017                         |

|    |                                                                                                   |                                                                                                            |                                                                                                                                         |      |
|----|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|
|    | Engineering and Informatics (ICELTICs)                                                            |                                                                                                            |                                                                                                                                         |      |
| 8  | IES-ETA                                                                                           | Deep multilayer network for automatic targeting system of gun turret                                       | <a href="https://ieeexplore.ieee.org/document/8240392/">https://ieeexplore.ieee.org/document/8240392/</a>                               | 2017 |
| 9  | International Electronics Symposium on Knowledge Creation and Intelligent Computing (IES-KCIC)    | Aksara jawa text detection in scene images using convolutional neural network                              | <a href="https://ieeexplore.ieee.org/document/8228567">https://ieeexplore.ieee.org/document/8228567</a>                                 | 2017 |
| 10 | 2018 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI) | Development of A Warning Receiver System for Public Display Based on Application-Controlled Video Switcher | <a href="https://ieeexplore.ieee.org/document/8864275">https://ieeexplore.ieee.org/document/8864275</a>                                 | 2018 |
| 11 | 2018 International Conference on Applied Science and Technology (iCAST)                           | Electronics System Design for Low Cost AGV Type Forklift                                                   | <a href="https://ieeexplore.ieee.org/document/8751559/">https://ieeexplore.ieee.org/document/8751559/</a>                               | 2018 |
| 12 | Jurnal eltek-polinema                                                                             | Simulasi dan Eksperimen Kontrol Automatic Turret Gun                                                       | <a href="https://eltek.polinema.ac.id/index.php/eltek/article/view/82">https://eltek.polinema.ac.id/index.php/eltek/article/view/82</a> | 2018 |
| 13 | IES-ETA                                                                                           | Application SLAM and Path Planning using A-Star Algorithm for Mobile Robot in Indoor Disaster Area         | <a href="https://ieeexplore.ieee.org/document/8615555">https://ieeexplore.ieee.org/document/8615555</a>                                 | 2018 |
| 14 | AIP Conference Proceedings, vol 2187, Article no 050006                                           | Dynamic trajectory generation of suspended cable-driven parallel robot                                     | <a href="https://doi.org/10.1063/1.5138336">https://doi.org/10.1063/1.5138336</a>                                                       | 2019 |
| 15 | International Electronics Symposium (IES)                                                         | Computer Vision System Based for Personal Protective Equipment Detection,                                  | <a href="https://ieeexplore.ieee.org/document/8901664">https://ieeexplore.ieee.org/document/8901664</a>                                 | 2019 |

|    |                                                                         |                                                                                                                                                     |                                                                                                         |      |
|----|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------|
|    |                                                                         | by Using Convolutional Neural Network                                                                                                               |                                                                                                         |      |
| 16 | International Conference on Applied Science and Technology (iCAST)      | Disaster Robot Navigation using Behavior-based Systems                                                                                              | <a href="https://ieeexplore.ieee.org/document/9557734">https://ieeexplore.ieee.org/document/9557734</a> | 2020 |
| 17 | International Journal of Dynamics and Control                           | Dynamic trajectory planning of reconfigurable suspended cable robot                                                                                 | <a href="https://doi.org/10.1007/s40435-020-00624-z">https://doi.org/10.1007/s40435-020-00624-z</a>     | 2020 |
| 18 | Mechanism and Machine Science, Lecture Notes in Mechanical Engineering. | Cable Driven Parallel Robot with Big Interference-Free Workspace                                                                                    | <a href="https://doi.org/10.1007/978-981-15-4477-4_4">https://doi.org/10.1007/978-981-15-4477-4_4</a>   | 2020 |
| 19 | IES-ETA                                                                 | Fork AGV : Estimation Of Combined Magnetic Sensor With Vision Guide Applied On Automatic Mobile Transporter For Navigation And Accurate Positioning | <a href="https://ieeexplore.ieee.org/document/9593991">https://ieeexplore.ieee.org/document/9593991</a> | 2021 |
| 20 | International Conference on Quality in Research (QiR)                   | Design of Miniature 3D Concrete Printer (3DCP) for One Story House Building                                                                         |                                                                                                         | 2021 |
| 21 | International Electronics Symposium (IES)                               | Development and Control of an Unmanned Ground Vehicle (UGV) Robotic Arm for Volcanic Material Sampling Based on Kinematics Modelling                | <a href="https://ieeexplore.ieee.org/document/9888452">https://ieeexplore.ieee.org/document/9888452</a> | 2022 |
| 22 | International Electronics Symposium (IES)                               | Design and Realization of UGV Robot with Combined of Geared Wheel and Walked Mechanism for Uncertain Terrain in Volcanic Observation                | <a href="https://ieeexplore.ieee.org/document/9888626">https://ieeexplore.ieee.org/document/9888626</a> | 2022 |
| 23 | ICAE                                                                    | System Design of                                                                                                                                    |                                                                                                         | 2022 |

|    |                                           |                                                                                               |                                                                                                                                     |      |
|----|-------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------|
|    |                                           | warehouse management AGV for Packages Sorting in supporting Industry of E-Commerce            |                                                                                                                                     |      |
| 24 | (eltek-polinema)                          | Rancang bangun sistem robot AGV untuk penyortiran paket ekspedisi dengan fitur anti collision | <a href="https://eltek.polinema.ac.id/index.php/eltek/issue/view/22">https://eltek.polinema.ac.id/index.php/eltek/issue/view/22</a> | 2022 |
| 25 | International Electronics Symposium (IES) | Communication and Coordination for Multi AGVs Based on MQTT Protocol                          | <a href="https://ieeexplore.ieee.org/document/10242541/">https://ieeexplore.ieee.org/document/10242541/</a>                         | 2023 |
| 26 | International Electronics Symposium (IES) | Design of Path Planning System for Multi-Agent AGV Using A* Algorithm                         | <a href="https://ieeexplore.ieee.org/document/10242585">https://ieeexplore.ieee.org/document/10242585</a>                           | 2023 |
| 27 | International Electronics Symposium (IES) | Dynamic Analysis on Forklift AGV with Center of Gravity Method                                | <a href="https://ieeexplore.ieee.org/document/10665882">https://ieeexplore.ieee.org/document/10665882</a>                           | 2024 |

#### F. Pengalaman Penulisan Buku

| No | Judul Buku                                              | Tahun | Jumlah halaman | Penerbit   |
|----|---------------------------------------------------------|-------|----------------|------------|
| 1  | Praktikum Robotika 1                                    | 2012  | 65             | Lokal PENS |
| 2  | Praktikum Robotika 2                                    | 2012  | 60             | Lokal PENS |
| 3  | Rekayasa Manufaktur 1                                   | 2015  | 80             | Lokal PENS |
| 4  | Standard international & occupational health and safety | 2016  | 100            | Lokal PENS |
| 5  | Kendali Cerdas                                          | 2019  | 80             | Lokal PENS |

#### G. Penghargaan yang pernah diraih dalam 10 Tahun Terakhir (dari Pemerintah, asosiasi atau institusi lainnya)

| No | Judul/Tema/Jenis rekayasa sosial lainnya yang telah diterapkan | Tahun | Tempat Penerapan           |
|----|----------------------------------------------------------------|-------|----------------------------|
| 1  | Juara Harapan 1 KOMURINDO                                      | 2012  | Yogyakarta – Pantai Congot |
| 2  | Juara Harapan 2 KOMURINDO                                      | 2013  | Garut – Pameungpeuk        |
| 3  | Juara Harapan 1 KOMURINDO                                      | 2014  | Kebumen – Pantai Bocor     |
| 4  | Juara 2 KOMURINDO                                              | 2015  | Garut – Pameungpeuk        |
| 5  | Juara 2 KOMURINDO                                              | 2016  | Garut – Pameungpeuk        |
| 6  | Juara Ide Terbaik                                              | 2016  | Garut – Pameungpeuk        |
| 7  | Juara 2 KOMURINDO                                              | 2017  | Garut – Pameungpeuk        |

|   |                                                                                                                                                                                 |           |                     |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|
| 8 | Juara 1 KOMURINDO                                                                                                                                                               | 2018/2019 | Garut – Pameungpeuk |
| 9 | Juara 1 Presentasi, Juara 2 poster PIMNAS 32 BALI, Peringkat 10 besar PIMNAS 32 Seindonesia seluruh Pendidikan Tinggi, dan Peringkat 1 PIMNAS 32 Seindonesia seluruh Politeknik | 2019      | Bali                |

## H. Sertifikat Keahlian

| No | Sertifikat                                             | Tahun |
|----|--------------------------------------------------------|-------|
| 1  | Junior Expert Occupational Safety and Health Associate | 2016  |
| 2  | Certified Artificial Intelligent Practitioner          | 2019  |
| 3  | Certified LabVIEW Associate Developer (CLAD)           | 2020  |
| 4  | Occupational Safety and Health Manager                 | 2020  |
| 5  | Junior Occupational Health and Safety Profesional      | 2020  |
| 6  | Praktisi Mesin CNC Milling HAAS VF3                    | 2020  |
| 7  | Sertifikat Las 3G Kampuh Welding Indonesia             | 2023  |
| 8  | Sertifikat Las Nippon Kaiji Kyokai                     | 2024  |

## I. Pembicara

| No | Kegiatan – Pelaksanaan                                                                                                                                                                                                                                      | Tahun |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1  | Bantuan Kemitraan Vokasi 2018 bidang robotic – Direktorat Pembinaan SMK                                                                                                                                                                                     | 2018  |
| 2  | Kamp Kreatif SMK Indonesia (KCSI) 2019 bidang robotik – Direktorat Pembinaan SMK                                                                                                                                                                            | 2019  |
| 3  | Bincang Juara Komurindo-Kombat 2020 (Baju Koko 2020) Seri 2 Kompetisi Muatan Balon Atmosfer                                                                                                                                                                 | 2020  |
| 4  | Kamp Kreatif SMK Indonesia (KCSI) 2021 bidang robotik – Direktorat Pembinaan SMK                                                                                                                                                                            | 2021  |
| 5  | Membangun riset terapan inovatif yang sinergis dan aplikatif sebagai kontribusi nyata terhadap kebutuhan dunia usaha dunia industri dan masyarakat – Forum Direktur Politeknik Negeri Indonesia (FDPNI) FGD skema penelitian Matching Fund, Kedaireka, BRIN | 2021  |
| 6  | Pengembangan Teknologi I-Care – Politeknik Negeri 3 Jakarta                                                                                                                                                                                                 | 2022  |
| 7  | The Rebolution is Near (University of Swiss German)                                                                                                                                                                                                         | 2022  |
| 8  | (Penyiapan Implementasi <i>Teaching Factory</i> Sinkronisasi Kegiatan Magang Industri dan Kurikulum) – Universitas Tadulako (Palu)                                                                                                                          | 2022  |
| 9  | Workshop Penyusunan Rencana Pembelajaran Semester (RPS) Program Studi Sarjana Terapan Teknologi Rekayasa Mekatronika (Politeknik Maritim Negeri Indonesia)                                                                                                  | 2023  |
| 10 | Introduction for Mechatronics for Medical Technology (Program Studi Teknologi Kedokteran ITS)                                                                                                                                                               | 2023  |
| 11 | ITE Singapura                                                                                                                                                                                                                                               | 2024  |

**J. Hak atas Kekayaan Intelektual**

| <b>No</b> | <b>Nomor</b>   | <b>Judul</b>                                                                             | <b>Year</b> |
|-----------|----------------|------------------------------------------------------------------------------------------|-------------|
| 1         | IDS000003348   | Alat Penggerak Anti Kemiringan Permukaan Robot Pada Robot Automated Guided Vehicle (AGV) | 2021        |
| 2         | IDS000005419   | Lengan robot Unmanned Ground Vehicle (UGV) untuk Mengambil Sampel Material Gunung Berapi | 2022        |
| 3         | EC002023133549 | PROTOMIC ( Project Custom Elektronik )                                                   | 2023        |
| 4         | EC00202491314  | Remotely Operated Vehicle (ROV) Merek CROVodile Tipe Mini T200HD                         | 2024        |