



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI

UNIVERSITAS JEMBER

Jalan Kalimantan 37 Kampus Tegalboto Kotak Pos 159 Jember 68121  
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**Ir. Robertus Sidartawan S.T.,M.T.**

Lektor

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Alamat Kantor : Gedung Program Studi Sarjana Terapan Rekayasa  
Perancangan Mekanik Fak. Teknik UNEJ

**PENDIDIKAN**

- S.T., UNIVERSITAS BRAWIJAYA, INDONESIA, 1995
- M.T., UNIVERSITAS BRAWIJAYA, INDONESIA, 2008

**MATA KULIAH YANG DIAMPU**

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2023	Ganjil	K3L	2	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Ganjil	Manajemen Industri	2	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Ganjil	Manajemen Produksi	2	Teknik Mesin
2023	Ganjil	Praktikum Pengelasan	3	Sarjana Terapan Rekayasa Perancangan Mekanik

**PENGALAMAN PENELITIAN**

Tahun	Judul Penelitian	Status	Sumber Dana	Besarnya Dana
2022	Rekayasa Rake Angle Negatif Dan Tekanan Hidrostatis Pada Pemotongan Orthogonal Material Getas Dalam Usaha Membantu Umkm Produk Ekspor Batu Piring Di Kabupaten Jember	Anggota	Hibah Penelitian Pasca Doktor (PPD)	25.000.000

**PENGALAMAN PENGABDIAN**

Tahun	Judul Pengabdian	Status	Sumber Dana	Besarnya Dana
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2024	Ipteks Bagi Kelompok Tani Pedesaan Lahan Pertanian Komoditas Palawija	Anggota	Program Dosen Mengabdikan di Desa Asal	30.000.000
2023	Iptek Bagi Peternak Ayam Kampung Dalam Pemenuhan Pakan Tinggi Protein Di Desa Karangrejo	Anggota	Program Dosen Mengabdikan di Desa Asal	29.450.000
2020	Sosialisasi Dan Pelatihan Penggunaan Fish Finder Sebagai Upaya Peningkatan Pendapatan Kelompok Nelayan Tradisional Di Desa Puger Wetan Kecamatan Puger Kabupaten Jember	Anggota	Hibah Pengabdian Pemula (PPP)	7.500.000
2018	Sosialisasi Dunia Perkuliahan Di Teknik Mesin Dan Teknik Konstruksi Perkapalan Universitas Jember Di Smk Negeri Wongsorejo, Kabupaten Banyuwangi	Ketua	Mandiri	2.000.000
2017	Pembuatan Pupuk Granul Organik Bagi Kelompok Tani Lahan Kritis Di Lereng Bukit Argopuro	Anggota	DRPM - Program Kemitraan Masyarakat(PKM)	50.000.000
2015	Pelatihan Pengenalan Perangkat Lunak Aplikasi Perkantoran Guru Dan Administrasi Di Sd Negeri Harjomulyo 02 Kecamatan Silo Kabupaten Jember	Anggota	Mandiri	1.000.000

## LUARAN PENELITIAN DAN PENGABDIAN

### A. Jurnal Nasional

- Robertus Sidartawan, Salahuddin Junus, Dwi Djumhariyanto, Gaguk Jatisukanto, Ahmad Wafi. 2022. PENGARUH Mg DAN PENAMBAHAN FRAKSI VOLUME SiC TERHADAP SIFAT MEKANIK KOMPOSIT Al6061/SiC. Stator. 5(1).
- Robertus Sidartawan, Franciscus Xaverius Kristianta, Intan Hardiatama, Hari Arbiantara Basuki, Norman Audi Erlangga Pradipta Yudah. 2022. Analisis Perawatan Cutter Section Dredger Dengan Metode FMEA dan OEE. MEKANOVA. 8(1). <http://jurnal.utu.ac.id/jmekanova/article/view/5454>
- Robertus Sidartawan, . 2021. Efektivitas Fish Finder Sebagai Teknologi Tepat Guna Bagi Masyarakat Nelayan Tradisional Puger Wetan Kabupaten Jember. Jurnal Ilmiah Teknologi Maritim (Wave). 15(02). <https://ejurnal.bppt.go.id/index.php/jurnalwave/article/view/4749>
- Yuni Hermawan, Robertus Sidartawan, . 2017. UJI TABRAK KOMPONEN PINTU DAN BAMPER MOBIL LISTRIK BERBAHAN KOMPOSIT SERAT TEBU DENGAN METODE ELEMEN HINGGA. ROTOR. 9(2). <http://repository.unej.ac.id/handle/123456789/80133>
- Yuni Hermawan, Robertus Sidartawan, . 2016. UJI TABRAK KOMPONEN PINTU DAN BAMPER MOBIL LISTRIK BERBAHAN KOMPOSIT SERAT TEBU DENGAN METODE ELEMEN HINGGA. ROTOR (Jurnal Ilmiah Teknik Mesin). 9(2).



## B. Jurnal Internasional

- Salahuddin Junus, Mochamad Asrofi, Rahma Rei Sakura, R. Puranggo Ganjar Widityo, Robertus Sidartawan, Gindeka Bimara, Rizky Akhmad Prayogi. 2023. Effect of Current, Time, Ethanol Concentration, and pH Electrolyte on ZnO Coated Carbon Fiber Using Electrochemical Deposition Method . Mechanical Engineering for Society and Industry . 3(2). <https://journal.unimma.ac.id/index.php/mesi/article/view/10493>
- Robertus Sidartawan, . 2023. Design and Development of Pan Granulator Capacity 250 Kg/Hour. International Journal of Latest Engineering Research and Applications (IJLERA). 8(12). <http://www.ijlera.com/papers/v8-i12/7.202312578.pdf>
- Robertus Sidartawan, . 2022. Design and Development of Organic Material Shredder Machine Rotary Blades Model. International Journal of Latest Engineering Research and Applications (IJLERA). 7(9). <http://www.ijlera.com/papers/v7-i09/10.202209387.pdf>
- Robertus Sidartawan, Boy Arief Fachri, Ririn Endah Badriani, Syamsul Arifin, Yuni Hermawan, Santoso Mulyadi, Dwi Djumhariyanto, Ahmad Syuhri, . 2022. Design Dynamometer 3-Axial Cutting Force on Turning Process for Brittle Material. Advanced Engineering Journal (AES). 54(08). <https://www.gkyj-aes-20963246.com/volume/AES/54/08/design-dynamometer-3-axial-cutting-force-on-turning-process-for-brittle-material-6357731dc0c14.pdf>
- Santoso Mulyadi, Erno Widayanto, Dwi Djumhariyanto, Ketut Aswatama Wiswamitra, Robertus Sidartawan, Widya Cahyadi, Ahmad Syuhri, Syamsul Arifin, Yuni Hermawan, . 2022. Design and Development of Organic Material Shredder Machine Rotary Blades Model . International Journal of Latest Engineering Research and Applications (IJLERA) . 7(9). <http://www.ijlera.com/papers/v7-i09/10.202209387.pdf>
- Mahros Darsin, Robertus Sidartawan, Yuni Hermawan, Dedi Dwilaksana, Hari Arbiantara Basuki, Ahmad Syuhri, Dwi Djumhariyanto, Rika Dwi Hidayatul Qoryah, Mochamad Asrofi, Nofa Kirana Pratama. 2022. Study of Chip Formation in Turning of AISI 4340 under Minimum Quantity Lubrication (MQL). Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(2). <http://www.gkyj-aes-20963246.com/article/study-of-chip-formation-in-turning-of-aisi-4340-under-minimum-quantity-lubrication-mql>
- Sumarji, Salahuddin Junus, Santoso Mulyadi, Mochamad Asrofi, Sujito, Robertus Sidartawan, Dr. Nur Abdillah Siddiq, Prof. Dr. S.M. Sapuan, Dr. R.A. Ilyas, Jan Pernando Saragih, S.T.. 2022. Tensile Strength and Thermal Resistance Analysis of Polylactic Acid (PLA) and Cassava Starch with Cellulose Paper Sugarcane Bagasse as Filler. Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(01). <https://www.gkyj-aes-20963246.com/article/tensile-strength-and-thermal-resistance-analysis-of-polylactic-acid-pla-and-cassava-starch-with-cellulose-paper-sugarcane-bagasse-as-filler>
- Robertus Sidartawan, Salahuddin Junus, Sumarji, Denni Riyanto. 2019. Influence of Magnesium on Hardness and Microstructure of ADC 12 Alloy Produced by Gravity Casting Method. Materials Science Forum. 951(-). [10.4028/www.scientific.net/MSF.951.101](https://doi.org/10.4028/www.scientific.net/MSF.951.101)
- Robertus Sidartawan, Salahuddin Junus, Sumarji, Haidzar. 2019. The Effect of Copper



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Electrode and HSS Type Electrode on DC Thermal Plasma Methode on the Characteristics of the Nanoparticle Al<sub>2</sub>O<sub>3</sub>. ARPN Journal of Engineering and Applied Sciences. 14(1). [http://www.arpnjournals.com/jeas/volume\\_01\\_2019.htm](http://www.arpnjournals.com/jeas/volume_01_2019.htm)

- Robertus Sidartawan, Santoso Mulyadi, Yuni Hermawan, Triwahju Hardianto, Dwi Djumhariyanto, . 2018. Analysis of Tool Vibration with Composite Damper of Cement-Sugar Cane Fiber on Turning Process Without Tailstock. International Journal of Mechanical Engineering and Technology (IJMET). 9(11). <http://www.iaeme.com/IJMET/index.asp>
- Dwi Djumhariyanto, Santoso Mulyadi, Robertus Sidartawan, Triwahju Hardianto, Yuni Hermawan, . 2018. Analysis of Effect Principal Cutting Angle to Stability of Tools Vibration with Cement-Sugar Cane Fiber Composite Damping. International Journal of Latest Engineering Research and Applications (IJLERA). 3(11). [www.ijlera.com](http://www.ijlera.com)

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### C. Prosiding International

- Danang Yudistiro, Dwi Djumhariyanto, Mahros Darsin, Hari Arbiantara Basuki, Rika Dwi Hidayatul Qoryah, Intan Hardiatama, Ahmad Syuhri, Yuni Hermawan, Robertus Sidartawan, Maulana Muhammad Firdaus. 2021. Progression in Designing and Fabrication of Minimum Quantity Lubrication (MQL) System with an Arduino based Controller. Engineering.
- Rika Dwi Hidayatul Qoryah, Aris Zainul Muttaqin, Dwi Djumhariyanto, Robertus Sidartawan, Mahros Darsin, Allen Luvandy. 2021. IOP Conference Series: Materials Science and Engineering PAPER • THE FOLLOWING ARTICLE IS OPEN ACCESS Performance of TiAlN PVD coated carbide tool in machining AISI 4340 with Minimum Quantity Lubrication (MQL) condition. .
- Salahuddin Junus, Sumarji, Robertus Sidartawan, . 2019. Influence of Magnesium on Hardness and Microstructure of ADC 12 Alloy Produced by Gravity Casting Method. Materials.
- Dwi Djumhariyanto, Santoso Mulyadi, Triwahju Hardianto, Yuni Hermawan, Robertus Sidartawan, . 2018. Analysis Stress and Displacement Cement Composite of 3-Axial Force Effect On Turning Process Aluminium 6061. -.

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### D. Naskah Akademik/Legal Opinion/Memorandum

- Robertus Sidartawan, Mahros Darsin, Aris Zainul Muttaqin, Rika Dwi Hidayatul Qoryah, Allen Luvandy, . 2020. Performance of TiAlN PVD coated carbide tool in machining AISI 4340 with minimum quantity lubrication (MQL) condition . Jurusan Teknik Mesin, Universitas Brawijaya Malang
- Intan Hardiatama, Yuni Hermawan, Mahros Darsin, Danang Yudistiro, Robertus Sidartawan, Dwi Djumhariyanto, Rika Dwi Hidayatul Qoryah, Hari Arbiantara Basuki, Ahmad Syuhri, Maulana Muhammad Firdaus. 2020. Progression in Designing and Fabrication of Minimum Quantity Lubrication (MQL) System with an Arduino based Controller. Fakultas Teknik, Universitas Muhammadiyah Surakarta



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- Salahuddin Junus, Robertus Sidartawan, . 2018. PENGARUH VOLUME FRAKSI PEREKAT UREA FORMALDEHIDA TERHADAP KEKUATAN TARIK KOMPOSIT PARTIKEL KAYU SENGON . Teknik Mesin Universitas Jember
  - Robertus Sidartawan, Salahuddin Junus, muhamad Kurniawan, . 2017. Pengaruh Volume Fraksi Perekat Urea Formaldehida terhadap pengaruh kekuatan tarik komposit partikel kayu sengon. Teknik Mesin Univesitas Jember
  - Salahuddin Junus, Robertus Sidartawan, . 2017. PENGARUH VOLUME FRAKSI PEREKAT UREA FORMALDEHIDA TERHADAP KEKUATAN TARIK KOMPOSIT PARTIKEL KAYU SENGON . Teknik Mesin Universitas Jember
  - Yuni Hermawan, Robertus Sidartawan, . 2017. Analisa Sifat Mekanis Biokomposit Laminat Serat Tebu - Polyester .