DEVIN EZEKIEL PURBA

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ABOUT ME

I am a fifth semester student, majoring in Electrical Engineering at the Faculty of Engineering, University of Indonesia. I am interested in the fields of information science and technology, electrical and electronics, artificial intelligence, machine learning, deep learning, neural networks, control engineering and telecommunications. I was born in Jakarta, 7 May 2003. I live at Sultan Iskandar Muda Street Number 18H, South Kebayoran Lama, Kebayoran Lama, South Jakarta.

ORGANIZATION EXPERIENCES AND ACTIVITIES

EXERCISE Faculty of Engineering University of Indonesia (February 2023 – Present)
Staff of Training and Development

- One of the staff in Experiment of Electro Technical Engineering and Science (EXERCISE) Faculty of Engineering University of Indonesia in the training and development division.
- In charge in the software training events such as MATLAB, Proteus, and DigSilent training and collaboration with laboratory assistants.
- In charge in the hardware training events that will be collaborating with PIPTEK IME.

Research Club and Student Creativity Program University of Indonesia (January 2023 - Present)
The Deputy Division of Human Resource Development of PKM Center UI

- One of the vice-managers as the representative of the human resource development division in the Student Creativity Program Organization at the University of Indonesia level.
- In charge of the human resource development from each of the member of PKM Center Club University of Indonesia. In charge of the evaluation of the performance of every member in PKM Center Club University of Indonesia.

Keluarga Mahasiswa Katolik Universitas Indonesia (February 2023 – Present)
Public Relation, Design, Publication, and Documentation Division Manager of KMK UI

- One of the managers of the governing body in the field of the Public Relation, Design, Publication, and Documentation division in the management of the Catholic Student Family, University of Indonesia.

Temutor (February 2023 – April 2023)

- One of the teaching staff or tutors in Temutor.
- In charge of tutoring junior high school and senior high school student in mathematics and physics via online or offline courses. Teaching in private one-on-one session and small focused group discussion consist of two to four students at once.

Student Affairs Directorate University of Indonesia with PKM Center UI (February 2023 – April 2023)
Club
Volunteer Proposal Reviewer for the PKM UI

- One of the volunteers that in charge as a proposal reviewer that will review and check the administration of the proposals that will be submitted to SIMBELMAWA and will compete in PIMNAS 2023.

Faculty of Engineering University of Indonesia (February 2023 – Present)
Lecturer Assistant in Linear Algebra Course

- One of the lecturer assistants in the Linear Algebra course that will be in charge as an assignment grader and lecturer assistant for the even semester of 2022/2023 educational year.

Keluarga Mahasiswa Katolik Teknik Universitas Indonesia (December 2022 – January 2023)

Committee Staff of the Public Relation, Design, and Documentation Division at Natal KMK UI 2022
- One of the committee staff in the "Catholic Student Family Christmas Event" in the Public Relations, Publication, Design and Documentation division.

Keluarga Mahasiswa Katolik Teknik Universitas Indonesia (February 2022 – January 2023)
Liturgy Staff of KMK Teknik UI
- One of the staff of the governing body in the field of the Liturgy division in the management of the Catholic Student Family ALUNA, Faculty of Engineering, University of Indonesia.
- In charge to be a supervisor of a division program called "Sunday Treat" and "KMK Teknik Choir".
- Responsible for maintaining and fostering the spirituality of the Catholic student family members.

University of Indonesia Robotics Team in Kontes Robot Seni Tari Indonesia (February 2022 - January 2023)
Staff of Programming Division KRSTI - TRUI
- One of the programming staff in the Robotics Team at the University of Indonesia for the Indonesian Dance Robotics Competition branch.
- In charge of the program code of the robot and the control flow of the movement from the robot.

ARJUNA Teknik Universitas Indonesia (February 2022 – December 2022)
Vice-Manager of Public Relation, Design, and Documentation of ARJUNA IPTEK
- Vice manager of the Public Relations, Publication, Design and Documentation Committee of the ARJUNA IPTEK 2022 event.
- In charge with the manager of supervising the performance sub-division of Public Relation, Publication, Design, Documentation, and Assessment.

Center for Entrepeneurship Development and Study (CEDS) UI (May 2022 - November 2022)
Vice-Manager Treasury and Sponsorship University of Indonesia Investment Class
- Vice Manager of Treasury and Sponsorship in the UI Investment Class 2022 event.

Keluarga Mahasiswa Katolik Universitas Indonesia (August 2022 - September 2022)
Committee Staff of the Public Relation, Design and Documentation Division at SBKMK UI 2022
- One of the committee staff in the "A Day with Catholic Student Family UI" event in the Public Relations, Publication, Design and Documentation division.

Badan Eksekutif Mahasiswa Fakultas Teknik UI (February 2022 - April 2022)
Staff of the Funding and Business Division of the Freshmen Fair 2022
- One of the staff in the Funding and Business Division in the Freshmen Fair of Faculty of Engineering, University of Indonesia 2022.

Keluarga Mahasiswa Katolik Teknik Universitas Indonesia (December 2021 - January 2022)
Committee Staff of the Public Relation, Design and Documentation Division at Natal KMK Teknik UI 2021
- One of the staff in the Public Relations, Publication, Design and Documentation division in the Catholic Student Family Christmas Event of Faculty of Engineering, University of Indonesia 2021.

Keluarga Mahasiswa Katolik Universitas Indonesia (November 2021 - December 2021)
Committee Staff of the Operational Division at Natal KMK UI 2021
- One of the staff in the operational division in the Catholic Student Family Christmas Event of University of Indonesia 2021.

EDUCATION

University of Indonesia (August 2021 - Present)
Bachelor of Electrical Engineering GPA: 3.82/4.00
- Achieved a GPA of 3.93 in the 1st semester which had 18 credits.
- Achieved a GPA of 3.85 in the 2nd semester which had 23 credits.
- Achieved a GPA of 3.80 in the 3rd semester which had 24 credits.
- Achieved a GPA of 3.70 in the 4th semester which had 22 credits.

- One of the assistant lecturers in the Linear Algebra course in the Even Semester of the Academic Year 2022/2023.
- One of the staff at Training and Development in "Experiment of Electro Technical Engineering and Science (Exercise)" Faculty of Engineering University of Indonesia 2023.

Canisius College High School (July 2018 - June 2021)
High School Science Major 92.8/100
- Achieve "Magna Cum Laude" for 6 times in 6 semesters of high school in academic records.
- Achieve "Magna Cum Laude" for 1 time in 6 semesters of high school in non-academic records.
- Achieve "Summa Cum Laude" for 4 times in 6 semesters of high school in non-academic records.
- One of the best students in non-academic achievement in the extracurricular of Ursula Canisius Voice and achieved the "Clavius Award".
- One of the members of "Cani-Tutor" Community. One of the members of "Canexco" Community.
- One of the students that compete in KSN-K 2018 in Chemistry. One of the students that compete in KSN-K 2019 in Mathematics

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COMPETITIONS

Futurest Business Case Competition 2023 (February 2023 – March 2023)
- FBCC is a business case competition by Smart Eco Campus Institut Teknologi Sepuluh Nopember (SRE ITS) aiming students from all around Indonesia to give real industrial cases in the field of Renewable Energy.
- One of the semifinalists

Technoskill 1.0 2023 (May 2023)
- Technoskill 1.0 2023 is a workshop and competition provided by PIPTEK IME FTUI and Exercise FTUI.
- The topic of the workshop and competition is "Deep Learning for Image Classification Using Artificial Convolutional Neural Network."
- Achieved 3rd place winner of the competition in Technoskill 1.0 2023.

RMI E-TIME 2023 (July 2023)
- Line follower robotic competition by Politeknik Negeri Jakarta

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PROJECTS

Line Follower Robot with ESP-32
- Line Follower Robot Design Project for RMI E-TIME 2023 Competition in Politeknik Negeri Jakarta. Robot made from prototype board, powered with a 12V Lippo Battery, uses an ESP-32 microcontroller, and uses a Proportional Integral Derivative (PID) controller algorithm in the ESP-32 code program in C++. The line sensor that was used in this project consists of 5-line sensors in an array.

Image Classification Program for Detecting Fire
- Image Classification Program made with Python programming language, uses several machine learning and deep learning libraries such as TensorFlow and Keras, and other libraries for numeric computation such as NumPy, and for plotting graph like Matplotlib. Overall, the program is trained and tested to detect whether the image has fire or not, analyze the errors and performance of the program and plot the training and testing performance.

Simple Smart Dustbin with Arduino
- A simple project to implement Arduino code. This smart dustbin can detect the level of the container and detect whether there is a user that wants to use the dustbin or not in front of it using an ultrasonic sensor. Other sensors that are used are IR-proximity sensors to help the ultrasonic sensors show the level of the container and the actuators are servo to open the lid, 20x4 LCD I2C, and OLED display to show graph

whether the dustbin detects the user or not. This project uses Arduino Uno R3 as the microcontroller and the code program in C++.

Personal Portfolio Website
- A simple portfolio website to describe myself and as an extension of my resume. The website is programmed in HTML, the style is in CSS, and some responsive features in the website programmed in JavaScript (JS).
- For more details: https://dvnezkl03.github.io/portfolioresume-website/

APPLIED COURSES

Getting Started with R for Data Science   (March 2023)
Linkedin Learning
- Online course in a form of learning path to learn basic-intermediate concept of R programming language for data science.

Master Your Python Skills   (February 2023)
Linkedin Learning
- Learning path online course to learn intermediate and advanced Python Programming Language concepts and application to systems and machine learning.

Master C++   (January 2023)
Linkedin Learning
- Learning paths online courses to learn basic to intermediate C++ Programming Language

Getting Started with C++   (January 2023)
Linkedin Learning
- Learning path online course to learn intermediate and advanced Python Programming Language concepts and application to systems and machine learning.

Learning C   (July 2022)
Linkedin Learning
- Online Course to learn basic C programming language.

C Essential Training   (July 2022)
Linkedin Learning
- Online Course to learn basic C programming language.

MATLAB Training EXERCISE FTUI   (June 2022)
EXERCISE FTUI x Control Lab FTUI
- MATLAB programming language training for beginners

Getting Started with Python   (May 2022)
Linkedin Learning
- Learning path online course to learn basic Python Programming Language

Proteus Training EXERCISE FTUI   (February 2022)
EXERCISE FTUI x DigiLab FTUI
- Proteus simulation and application training for basics of digital electronics and systems

Master Excel for Data Science   (April 2022)
Linkedin Learning
- Online course in a form of learning path to learn basic-intermediate concept of using Microsoft Excel for data science implementation.

Python Online Course and Projects by Progate   (July 2021)

Progate x Faculty of Engineering University of Indonesia

- Python programming online course and projects for beginners with applied project

Java Online Course by Progate   (July 2021)

Progate x Faculty of Engineering University of Indonesia

- Java programming online course and projects for beginners