VÕ MINH HUY

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Date of Birth: 28/12/2003
Gender: Male
Age: 22

OBJECTIVE

Final-year honors mechatronics engineering student seeking a challenging full-time position to apply and enhance expertise in mechanical design, electrical systems, and programming within a forward-thinking technical environment.

EDUCATION

Bachelor of Mechatronics, Ho Chi Minh City University of Technology — Sep 2021 – Present
Final-year student with GPA: 3.5/4.0

SKILLS

Electrical Control:

- Advanced knowledge of electrical systems, microcontrollers, and industrial protocols (I2C, RS232, SPI)
- Proficient in electrical cabinet design, control systems, and PCB development

Wireless IoT Connectivity:

- Expertise in HTTP, MQTT, and WebSocket protocols for real-time data transmission and IoT applications
- Experience implementing ESP32/ESP8266 wireless modules and configuring network infrastructure for IoT devices

Robotics:

- ROS implementation for autonomous navigation and control
- Multi-robot coordination using advanced pathfinding algorithms (A*, D*, CBS)

AI Machine Learning:

- Multi-Agent Deep Reinforcement Learning for collaborative systems
- Experience with MARLlib framework and agent training in simulated environments

Technical Expertise:

- Programming: C, MATLAB, Python, PyTorch, Arduino, PIC/STM32 microcontrollers, Mitsubishi PLC
- Design: AutoCAD, Solidworks, Inventor, Abaqus, Altium
- Languages: Advanced English proficiency (TOEIC: 920/990)

EXPERIENCE

Electrical Intern — Jun 2024 – Sep 2024
Nam Hoa SwitchBoard Co., Ltd — *Thu Duc City, Ho Chi Minh City*

- Designed and assembled low-voltage electrical panels for industrial applications
- Executed cable termination, equipment layout optimization, and comprehensive panel testing

Design Intern Jun 2023 – Sep 2023
Asia Pacific Engravers-Vietnam Co., Ltd (APE) *Tan Tao Industrial Park, Binh Tan District*

- Created professional mechanical designs and manufacturing documentation
- Collaborated with cross-functional teams on 3D modeling and product development workflows

PROJECTS

Multi-AGV Control System Using MARL

- Developed a multi-agent reinforcement learning model for coordinating autonomous guided vehicles
- Implemented QMix algorithms for decentralized control and designed mechanical lifting systems

Electrical Panel Engineering

- Engineered control panels for water pumps, lighting systems, and elevator applications
- Installed and commissioned RMU and MDB systems for Vinhomes residential complexes

TCLP Testing Apparatus

- Designed and fabricated precision leaching test equipment with optimized load distribution
- Produced comprehensive technical documentation and assembly protocols

Pipe Winding Machine

- Engineered a semi-automatic hydraulic winding system with detailed 3D assembly models
- Generated production-ready drawings and technical specifications

MERC Competition – Fortification Battle

- Constructed a 4-wheel robot with articulated arm for automated competition
- Developed embedded control systems and chassis integration

Solar Backpack Solution Project Link

- Designed renewable energy storage system integrated into everyday carrying equipment
- Showcased prototype at university exhibition with functional mobile device charging capabilities