MINH BAO LE

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EDUCATION

University of Connecticut **August 2028**

Bachelor of Science in Engineering – Mechanical Engineering

- GPA: 3.90/4.00 – Dean's List Fall 2024, Spring 2025
- Honors: UConn Stamps Scholars and Honors Program

Relevant Coursework: Multivariable Calculus | Applied Mechanics I – Statics | Engineering Thermodynamics | Elementary Differential Equations | Principles and Practice of Digital Logic Design

TECHNICAL SKILLS

- **Design Software**: SolidWorks, AutoCAD , Fusion360
- **Programming Language**: Python, C++, HTML/CSS
- **Tools**: VS Code, MATLAB, Simulink, Jupyter Notebook, Arduino IDE, 3D Slicers

RELEVANT EXPERIENCE

UConn Vergnano Institute for Inclusion **May 2025-August 2025**

STEM Education Assistant *Storrs, Connecticut*

- Mentored and oversaw 22 students in designing, building, and testing 11 functional underwater ROVs with 100% completion rate and 90% functional rate.
- Instructed students in marine engineering concepts in SolidWorks and ROV simulator: frame design, motor placement, controller schematics, and camera integration.
- Designed and delivered hands-on engineering activities for 80 high school students across 6+ engineering disciplines including mechanical, computer science, electrical, and biomedical.

Dong Anh Electrical Equipment Corporation JSC **May 2023-July 2023**

Intern *Ho Chi Minh, Vietnam*

- Analyzed electrical transformer blueprints in AutoCAD to assess mechanical and electrical components.
- Evaluated equipment assembly processes and testing procedures for efficiency optimization opportunities.
- Conducted quality control inspections on electrical components ensuring industry and safety compliance.

RELEVANT PROJECTS

Planar 3-link Robot Arm **July 2023-October 2023**

- Designed a 3-joint robotic arm using SolidWorks, assembled the components, and wired the electronics**.**
- Implemented forward and inverse kinematics in MATLAB and Simulink for real-time position control.
- Programmed control algorithms in Arduino for optimized robotic movement.

ACTIVITIES

UConn FROST Robotics **August 2024-Current**

- Collaborated on combat robot design using Fusion360 and competed in National Havoc Robot League.
- Manufactured components by utilizing Prusa and Bamboo 3D printers.
- Assisted in designing a maneuvering algorithm in Arduino to control the movement of the robot.