

# Minh Son (Bon) Nguyen

**Address:** Waurm Ponds, VIC, 3216 **Tel:** 0426843442

**Email:** minhsonnguyen1509@gmail.com

---

## Career Profile

---

A Mechatronics Engineering student with strong technical skills, driven by curiosity, and a passion for innovation. Actively engaged in both academic and professional environments, I am an eager learner who is full of ideas, constantly seeking new opportunities and challenges to grow. I am committed to developing both my technical expertise and leadership abilities, always striving to contribute meaningfully to any team or community I am part of.

---

## Education

---

**Bachelor of Engineering (Honours)** **02/2024 – Current**

*Deakin University, Waurm Ponds Campus*

Major: Mechatronics Engineering

Achievements: Vice Chancellor's International Scholarship

WAM: 92.25

**Vietnam National High School Graduation Certificate** **08/2020 – 07/2023**

*Chu Van An National High School, Hanoi*

Average GPA: 9.67 (9.5-9.6-9.9)

---

## Technical Experience

---

**Software Lead, Electrical Team Member** **8/2024 – Current**

*Deakin University Solar Car Team, Waurm Ponds*

- Led the software development and assisted with the electrical system build for DUST 1 – Deakin University's entry for the Bridgestone World Solar Challenge 2025
- Managed the MoTeC-based software system, including ECU, dash display, and power distribution module, and integrated Prohelion BMS and Wavesculptor to develop a unified software solution
- Developed software in the MoTeC ECU to integrate the low-voltage (steering circuit, sensors) with the high-voltage system (battery, solar array, and drivetrain), improving drivability, system robustness, and efficiency
- Customized the driver interface using buttons, dials, and dash display to enhance usability and control
- Configured and integrated BLDC Marand motors with Wavesculptor motor controllers
- Monitored and analysed log and telemetry data to inform strategy during the race from Darwin to Adelaide

**Payload System Lead** **12/2024 – Current**

*Deakin Rover Team, Waurm Ponds*

- Supported logistics and strategic planning for the 2025 Australian Rover Challenge
- Leading a subsystem team to design and build a robotic arm and task-specific payload for the 2026 competition
- Designing a robotic arm with a focus on mechatronic control systems, including FOC control for BLDC motors, CAN bus communication, and ROS2 for simulation and motion planning
- Overseeing project management activities including recruitment, task delegation, and a development plan

**Team Leader****3/2025 – 5/2025***Team 11 SEM200, Waurin Ponds*

- Led a team of five in the Warman Design and Build Challenge as part of the SEM200 Machine Design unit
- Managed project planning, task allocation, and collaborative problem-solving
- Designed the mechatronics system, including drivetrain and a 2-DOF ball collector, covering mechatronics actuators, 3D modelling, electrical circuitry, and Arduino programming
- Manufactured the machine using 3D printing, laser cutting, and waterjet cutting
- Carried out hands-on mechanical assembly and electrical wiring
- Achieved 1st place in the university-wide competition; currently preparing for the international competition

**Intern Unity Developer****8/2023 – 1/2024***IEC Games, Hanoi*

- Mastered computer science fundamentals, facilitating an understanding of programming languages and concepts.
- Achieved proficiency in utilizing C# and Unity to craft hyper casual games, ensuring smooth and efficient development processes.
- Spearheaded the creation of 5 game prototype projects, showcasing versatility and creativity in game design and development.
- Collaborated effectively within cross-functional teams, including developers, game artists, and idea staff, to brainstorm and materialize captivating game concepts and ideas.

---

**Employment**

---

**Maths Mentor****02/2025 - Current***Deakin University, Waurin Ponds*

- Provided academic support to students by assisting with maths-related questions and helping them strengthen their understanding of various concepts.
- Demonstrated effective communication skills and active listening to assess individual student needs and tailor explanations accordingly.
- Applied problem-solving techniques to break down complex issues into manageable steps, guiding students through the process to build confidence and competence.

**Library Support Assistant****02/2025 - Current***Deakin University, Waurin Ponds*

- Provided TechAssist service at the start of each trimester, effectively communicating and resolving common set-up tech inquiries for new students.
- Assisted in organizing and maintaining the book-keeping system, ensuring proper shelving and retrieval of books to support library services.
- Collaborated with librarians to ensure smooth library operations and organized learning environment.
- Answered student inquiries regarding borrowing procedures, locating resources, and library services, offering clear and accurate guidance.
- Led library tours, showcasing key facilities and services to new students.