

Luong Hieu Trinh

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EDUCATION

University of RMIT Melbourne, Bachelor of Engineering (Advanced Manufacturing & Mechatronics) Jul 2025 - Jun 2029

Relevant Coursework: Advanced Mathematics, Engineering Design, Electrical & Electronic Engineering, Digital Fundamentals

Member: Engineers Australia (EA) members, Advanced RMIT Competitive Robotics, RUASRT, RMIT Rover Payload

WORK EXPERIENCES

ElectraWireless.

Remotely

Product Design Intern | SolidWorks

May 2026 - Present

- Designed and modelled wireless kitchen appliances in SolidWorks, including a smart pressure cooker and wireless kettle.
- Applied wireless power transmission principles to develop and refine product designs through multiple engineering iterations.
- Collaborated with the electrical team to integrate electronic systems and ensure designs were suitable for manufacturing and assembly.

Point Precision Engineering PTY Ltd.

Nunawading, VIC

CNC Machine Operator | SolidWorks, MasterCAM

Nov 2025 - Feb 2026

- Observed CNC machining workflows used to manufacture precision tolerance components.
- Gained hands-on experience machining my own product, completing all required steps using relevant CNC machines.
- Software used: SolidWorks and Mastercam. Produced precision parts and explored assembly features such as limit angle and concentric mates in SolidWorks.

VoteGuard International Ltd.

Claymore, NSW

IT and Digital Systems Support Volunteer | WordPress

Dec 2025 – Present

- Maintain and update the organization's website (WordPress).
- Troubleshoot basic IT issues (email, hosting, DNS, etc.).
- Organize cloud storage, file management systems and assist with cybersecurity protocols.

Simon Oz (Queen Victoria Market)

Queen St, VIC

Retail Operations & Customer Service | Retail Assistant, Stock Management

Jun 2022 – Present

- Managed inventory tracking, stock replenishment, and product display to support daily store operations.
- Provided customer service to diverse visitors while supporting high traffic retail operations.

PROJECTS

3D Printing and Laser Cutting Chess Project

| Shapr3D, Blender, Inkscape Oct 2023 - Feb 2024

- Designed custom chess pieces in Shapr3D, Blender and manufactured prototypes using 3D printing.
- Created a personalized chessboard in Inkscape and fabricated it using laser cutting tools.
- Iteratively refined geometry and print settings to improve dimensional accuracy and structural stability.

RMIT BattleBots Robot Development

| Onshape, KiCad Aug 2025 - March 2026

- Assist with robot chassis prototyping, wiring, and mechanical assembly for BattleBots competition robots.
- Gain practical experience in robotics chassis prototyping and electromechanical systems.

Web Development Travel Guide Project

| HTML, CSS Jan 2022 - March 2022

- Built a personal website using HTML and CSS, hosted on GitHub.
- Developed coding, debugging, and front-end development skills.

LEADERSHIP

Tournament Leadership & Fundraising

HCMC, VN

IB CAS Tournament Leader & Event Organizer

Jan 2024 - August 2025

- Organized two large-scale tournaments (Chess and Badminton) with 100+ participants.
- Raised ~AUD \$1,000 in entry fees and sponsorships, donating proceeds to local charities.
- Managed logistics, scheduling, and volunteers, ensuring smooth execution.

TECHNICAL SKILLS

CAD & Design: SolidWorks, AutoCAD, MasterCAM, Onshape, Blender, Shapr3D, KiCAD

Engineering Analysis: MATLAB

Prototyping: 3D Printing, Laser Cutting, PCB Designing

Programming: C, C++, Python