CHEZTER P. VARGAS

Biomedical Engineer │ Technical & Clinical Support │ Embedded Systems & 3D Design

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PROFESSIONAL SUMMARY

Biomedical Engineering graduate (B.S.B.M.E., Ateneo de Zamboanga University, Philippines) with clinical placement experience at a major public hospital. Recognised with three internship awards including Most Diligent Intern and Best in Calibration. Skilled in biomedical equipment maintenance, calibration, embedded systems, and 3D design. Self-directed learner actively building personal software projects. Currently in Wellington, New Zealand, and seeking employer-supported work visa.

EDUCATION

Bachelor of Science in Biomedical Engineering   *Dec 2025*

Ateneo de Zamboanga University — Zamboanga City, Philippines

GPA: 3.28 / 4.0 | 4-year programme | English medium of instruction | PAASCU-accredited

- Thesis: "eM-Brace: Development of an Autonomous Wrist Splint with an Integrated Massage System for Alleviating Muscle Weakness Related to Carpal Tunnel Syndrome"
- Officer, Biomedical Engineering Society — Head of Creatives (2023–2024)

WORK EXPERIENCE

Biomedical Engineer Intern   *Jun 2024 – Jul 2024*

Zamboanga City Medical Center — Zamboanga City, Philippines

- Performed corrective and preventive maintenance, calibration, and Level 1 technical support for clinical equipment including patient monitors and ultrasound units.
- Conducted product demonstrations and technical briefings for clinical staff on medical devices.
- Designed and fabricated custom 3D-printed components to support department R&D projects.
- Practised soldering and electronics assembly as part of prototype and repair workflows.
- Maintained department documentation, filing systems, and administrative records.

KEY PROJECT

eM-Brace — Autonomous Wrist Splint   *2024 – 2025*

Final Year Thesis — Ateneo de Zamboanga University

- Independently designed and built an autonomous wrist splint with an integrated massage system for carpal tunnel syndrome relief, from concept through prototype and clinical evaluation.
- Integrated embedded systems (Arduino IDE / C++) with custom 3D-printed hardware.
- Evaluated prototype performance against relevant medical device standards, and managed full technical documentation.

SKILLS

Biomedical & Clinical

Equipment maintenance & repair · Calibration · Level 1 clinical support · Biomedical signal & imaging systems · Health technology management

Electronics & Hardware

Soldering & electronics assembly · Embedded systems (Arduino IDE) · PCB development & design · Sensors & transducers

Design & Fabrication
3D design & printing · AutoCAD · TinkerCAD

Programming & Software
C / C++ · Python (developing) · HTML / CSS / JavaScript · Microsoft Office · Technical documentation

CERTIFICATIONS

- On-The-Job Training Certificate — *Zamboanga City Medical Center (2024)*
- PCB Development & Design Workshop — *Junior IECEP ADZU Chapter (2023)*
- Youth Volunteer Orientation Course — *Philippine Red Cross (2019)*

AWARDS & RECOGNITION

- Most Diligent Intern — *Zamboanga City Medical Center (2024)*
- Best in Calibration — *Zamboanga City Medical Center (2024)*
- Best Product Demo Performance — *ENT-HNS Medical Makerspace (2024)*
- Jack of All Trades Award — *ENT-HNS Medical Makerspace (2024)*

VOLUNTEERING & LEADERSHIP

- Head of Creatives, *Biomedical Engineering Society* — ADZU (2023–2024)
- Public Information Officer, *Senior Plus Red Cross Youth* — ADZU (2019–2020)
- Creatives Member, *SITEAO Academic Organisation* — ADZU (2021–2022)

PERSONAL PROJECTS

- Personal Portfolio Website — lecaseus.github.io — Built from scratch using HTML, CSS, and JavaScript (2026–present)
- CH3SH1RE, Personal AI Assistant — github.com/LeCaseus/CH3SH1RE — Python with SQLite integration (2026–present)

LANGUAGES

English — Fluent   Tagalog — Native   Chavacano — Intermediate