

MAXIMUS MAEHARA

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EDUCATION

Electrical & Computer Engineering, Oregon State University, Corvallis, OR

Expected June 2029

- **Honors Bachelor of Science** (Top ~6% of undergraduates)
 - **GPA 3.89**
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RESEARCH PROJECTS

Project Lead, Blood Pressure Calibration Drift Model, Corvallis OR

Apr. 2026 - Present

- Initiated and led development on a calibration drift model for noninvasive blood pressure models working alongside Professor Matthew Johnston utilizing MATLAB and custom systems to develop model

Co-Lead Researcher, FPGA Neural Network Integrated Hardware, Corvallis OR

Apr. 2026 - Present

- Collaborated on a research team led by Professor Jason Clark & Ryan Clarson where optimized AI workloads on FPGA using hardware acceleration and resource-efficient design techniques
- Built Neural Network alongside Taichi Yoshikawa with Python and worked on integrating model onto FPGA Moku hardware using Verilog & VHDL and custom designed memory onto hardware

Personal Project, Embedded BLE Image Capture Recognition, Honolulu HI

Apr. 2026 - Sep. 2026

- Built embedded wearable using Raytac BLE module (C, GATT) and Arducam camera module, performing on-device image processing and lightweight CNN inference for math/physics recognition; transmitted text outputs over BLE to AR display with synchronized haptic feedback (~100–300 ms latency)
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ORGANIZATIONS & AFFILIATIONS

Member, Artificial Intelligence Club | Oregon State University

Mar. 2026 - Present

- Applied supervised learning (regression, classification) on structured dataset
- Performed data preprocessing, feature selection, and model evaluation with team for object recognition

Member, Embedded Systems Club | Oregon State University

Mar. 2026 - Present

- Wrote embedded C programs for microcontroller-based systems with peers building computer vision
 - Implemented sensor interfacing and basic I/O communication protocols
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SKILLS & CERTIFICATIONS

- **Programming** —Python (SciPy, NumPy) , C (Embedded Systems), C++
- **Engineering** — Circuit analysis, signal processing fundamentals, numerical methods
- **Hardware & Tools** — Microcontrollers, oscilloscopes, signal generators, soldering
- **Fabrication & Prototyping (iLabs Certified)** — CNC machining, laser cutter, waterjet cutting, TIG welding, 3D printing, soldering, power tools
- **CAD** — Certified Onshape Associate