

Marcus Chen I WADA

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EDUCATION

University of Michigan-Dearborn, Dearborn, MI

May 2027

Bachelor of Science in Computer Engineering

GPA: 3.97

SKILLS

- **Controls & Embedded Systems:** MATLAB/Simulink, STM32, Teensy, Arduino
- **Programming Languages:** Python, C++, C, JavaScript, SQL, LaTeX
- **Version Control & Collaboration:** Git, GitHub
- **Development Tools:** PyCharm, VS Code, Jupyter Notebook, PlatformIO, WebStorm

RELEVANT EXPERIENCES

Aug 2023 – Current	Research Assistant at UNIVERSITY OF MICHIGAN-DEARBORN, Dearborn <ul style="list-style-type: none">• Developed a GPU-cluster power simulator to evaluate grid safety and controls• Designed and simulated plant models with full-state feedback controllers for distributed renewable energy systems• Configured and optimized a High-Performance Computing (HPC) node (SLURM) to accelerate control simulations and data processing• Developed a web-based platform for interactive power outage data analysis, integrating a large language model (LLM) for accessibility• Collaborated with faculty and community stakeholders to align control research with infrastructure resilience goals
Aug 2023 – Current	Airbrakes Lead , Michigan Aeronautical Science Association (MASA) <ul style="list-style-type: none">• Coordinated efforts across control design, CFD analysis, HIL testing, and hardware security research to ensure system robustness• Designed and implemented a closed-loop airbrake control system to improve apogee accuracy for the 2025 International Rocketry Engineering Competition (IREC)• Built a Python-based GUI to visualize trajectories and flight parameters for the 2024 Spaceport America Cup (SAC)
Jul 2024 – Current	Supplemental Instructor – General Chemistry & Calculus at UNIVERSITY OF MICHIGAN-DEARBORN, Dearborn <ul style="list-style-type: none">• Led weekly peer-learning sessions, guiding students through structured problem-solving strategies• Created review materials and quizzes in collaboration with faculty to reinforce key concepts
Aug 2023 – Current	Treasurer , Math Club <ul style="list-style-type: none">• Secured \$2,000+ in funding to support competitions and colloquia• Organized weekly preparation sessions for the Putnam Exam and regional math competitions
Jun 2019 – Jun 2022	Coffee Quality Grader & Spectrophotometer Technician at Blossom Valley Coffee, Taichung, Taiwan <ul style="list-style-type: none">• Calibrated and maintained Agtron Spectrophotometers• Conducted coffee quality assessments through cupping sessions

LANGUAGES

ENGLISH (Fluent), PORTUGUESE (Fluent), MANDARIN (Conversational), SPANISH (Intermediate), FRENCH (Intermediate)