# Natalene Gunawan

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## Education

**University of California, Irvine** *September 2024 - March 2027*
*B.S Computer Engineering | GPA: 3.6* *Irvine, CA*
**Mt. San Antonio College** *August 2022 - June 2024*
*A.A Mathematics (Transfer, Presidential Dean's List) | GPA: 3.53* *Walnut, CA*
**Associations:** *Society of Women Engineers, First Robotics Competition , Women in Computer Science (WICS), IEEE*

## Experience

**Systems Software Engineering Intern** *June 2025 - Sept 2025*
*ASML* *San Jose, CA*

- Built a **web-based compliance dashboard** to centralize hardware/firmware/software subsystem status for multi-beam inspection tools in semiconductor machinery. **(Python/Flask, HTML/CSS, JS, Git)**
- Automated update tracking and system diagnostics, **reducing manual checks by 10 hrs/week**
- Created **Python + Excel** scraping pipelines to ingest firmware release notes into the compliance DB, improving visibility for release planning. **(Pandas, Numpy, Requests)**

**Software Engineering Intern** *May 2024 - September 2024*
*Oshkosh Corporation* *Oshkosh, WI*

- Developed an **in-vehicle dashboard** integrating **multi-camera vision feeds** within electric tow trucks and providing control system feedback in real time. **(Python - OpenCV/Tensorflow/Keras, Altia Design).**
- Supported vehicle systems engineers in testing **embedded control units**, documenting data flow between perception and control modules with machine learning.

**Product Management Intern** *January 2025 - May 2025*
*ITT Inc.* *Placentia, CA*

- Created interactive **Excel** and web-based tools with **VBA** and lightweight **JavaScript automation** to forecast mechanical performance and bid scenarios for $20M+ projects and 800+ pump components.
- Created **Creo CAD** models and documentation to ensure compliance with mechanical/system specifications.

**Mechanical Systems Advisor** *October 2022 - Present*
*FIRST Robotics Competition Volunteer* *Los Angeles, CA*

- Mentored students on diagnosing/repairing robotic systems with **control integration + real-time troubleshooting**.
- Managed field setup/teardown operations for events, ensuring consistent match flow and system reliability.

**President** *July 2023 - June 2024*
*Mt. Sac Computer Science Club* *Walnut, CA*

- Revived and scaled club post-pandemic, increasing membership up to **800+ students in one year**.
- Launched tutoring, professor-led workshops, and inter-club projects, building campus-wide technical engagement.

## Projects

**Heart Health Prediction Android App** *February 2024- March 2024*

- Analyzed a **Kaggle** cardiovascular dataset to identify key factors influencing heart-disease risk.
- Built an Android app in **Java** that predicts heart-issue likelihood on user inputs like age, gender, and cholesterol.

**Hydrogen Fuel Cell Car** *May 2023- May 2023*

- Engineered a **hydrogen-powered robotic vehicle** with integrated fuel cell, solar panel, and **PLC-based** control system; modeled chassis and precision wheels in **AutoCAD**
- Validated design through performance testing achieving 3-minute runtime and terrain navigation over large cracks.

## Skills and Relevant Coursework

**Languages:** C/C++, Python, Java, JavaScript, TypeScript, R, SQL, HTML/CSS, Excel VBA
**Frameworks:** React, Spring Boot, jQuery, Next.js, Node.js, Express, GraphQL
**Tools:** Git, Linux, AWS, Azure, Docker, REST APIs, Pandas, NumPy, Matplotlib, PowerBI, Tableau, CI/CD, Shell, JIRA
**Relevant Coursework:** Software Engineering, Data Structures, Machine Learning, Digital Logic, Computer Networks