

# Natalene Gunawan

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## Education

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### University of California, Irvine

B.S Computer Engineering | GPA: 3.6

September 2024 - March 2027

Irvine, CA

### Mt. San Antonio College

A.A Mathematics (Transfer, Presidential Dean's List) | GPA: 3.53

August 2022 - June 2024

Walnut, CA

**Associations:** Society of Women Engineers, First Robotics Competition , TEA, GAIN (Gaming, Animation, Industry, Network)

## Experience

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### Systems Software Engineering Intern

ASML

June 2025 - Sept 2025

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

Oshkosh Corporation

May 2024 - September 2024

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

ITT Inc.

January 2025 - May 2025

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

FIRST Robotics Competition Volunteer

October 2022 - Present

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

Mt. Sac Computer Science Club

July 2023 - June 2024

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

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### 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

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**Languages:** C/C++, Python, Java, JavaScript, TypeScript, SQL, HTML/CSS, Excel VBA

**Frameworks:** React, Spring Boot, jQuery, Next.js, Node.js, Express, GraphQL

**Tools:** Git, Linux, Docker, REST APIs, Pandas, NumPy, CI/CD, Docker, Linux, Shell, OS, JIRA, OAuth2, ServiceNow

**Relevant Coursework:** Software Engineering, Data Structures, Machine Learning, Digital Logic, Computer Networks