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, Themed Entertainment Association (TEA), WICS*

Experience

Systems Software Engineering Intern   *June 2025 - Sept 2025*
ASML   *San Jose, CA*
- Built a **web-based compliance dashboard** and automated diagnostics pipelines for multi-beam inspection systems, reducing manual status checks by 10+ hours/week. **(Python/Flask, HTML/CSS, JS, Git)**
- Developed **Python data-ingestion tools** to parse firmware release notes and populate the compliance database, 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

Designs: Figma, Adobe Creative Cloud (Photoshop, Illustrator, Premier), ProCreate, Blender, Wireframing & Prototyping
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, 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