

# Michael Jegalian

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## Education

### Bachelor of Science, Mechanical Engineering

California State Polytechnic University, Pomona

May 2024

Overall GPA: 3.42

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## Technical Skills

SolidWorks, Design Reviews, Design Engineering, PCB/PCBA, DFM, Test Engineering, Supplier Coordination

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## Experience

### Product Engineer (PCB/Flex) – Glenair

June 2024 – Present

- Served as single technical point of contact for PCB/PCBA products, coordinating design, manufacturing, and test teams to ensure on-time product delivery and cross-discipline alignment.
- Formulated rapid engineering plans to resolve design or manufacturing roadblocks under tight deadlines, maintaining schedule and customer satisfaction.
- Led DFM initiatives for PCB and PCBA electro-mechanical assemblies, improving manufacturability and better preparing planning teams.
- Drove connector selection and integration efforts for flight hardware, utilizing MIL-DTL-38999 and MIL-DTL-83513 families to meet mechanical, electrical, and environmental design requirements.
- Implemented geometry and fit-check reviews to validate design integrity prior to production, minimizing rework and accelerating design cycle time.
- Generated acceptance and qualification test documentation and analyzed test results in accordance with applicable MIL standards, verifying product compliance and design robustness.
- Worked hands-on with test equipment and lab teams, troubleshooting test issues and ensuring data integrity for certification packages.
- Mentored intern engineers in PCB design, manufacturing process flow, and project coordination best practices—cultivating a culture of accountability and learning.
- Drafted detailed PCBA drawings and reviewed customer-supplied PCB and PCBA documentation to ensure design accuracy, manufacturability, and compliance with engineering standards.

### Glenair Engineering Intern – Glendale CA Filters Division

June 2023 - August 2023

- Conducted reverse engineering on a complex cutting machine, comprising diverse components such as PLC, actuators, relays, etc. mitigating risks on the assembly line.
- Documented detailed 'from' and 'to' specifications for electrical wiring systems, increasing efficiency and enabling effective maintenance procedures for hardware.
- Applied understanding of pneumatic and electromechanical systems to document the operations of machines, drafting electric and pneumatic diagrams/blueprints both by hand and MS Visio.
- Programmed software to allow the sorting of data in from-to excel workbooks using react to display data through a web UI which reduced human verification error by 100%.
- Conducted extensive research and utilized effective communication skills to contact various part manufacturers, ensuring accuracy and reliability of part numbers and technical specifications.
- Participated in automation engineering tours to gain exposure to cutting-edge automation technologies.

## Honors and Activities

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### Member, American Society of Mechanical Engineers

- Generated presentations and explored artificial intelligence integration into mechanical engineering.

### Captain, Dunkin Dolma Intramurals Basketball Team

- Led and coached a basketball team fostering skill development and scheduled coordinated practices.

**Music Producer** – Original piano music compositions and arrangements.