

## Catalina Mari Mapson

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I am an experienced Electrical Engineering Technician with a strong background in harness assembly, PCA board rework, and quality control inspections. Proficient in IPC standards, troubleshooting, and technical skills, including Microsoft Office and Adobe Products. Adaptable and detail-oriented with a proven track record in R&D and production environments.

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### Education

#### University of Colorado at Boulder

Bachelor's Degree in Comprehensive Mathematics

Bachelor's Degree in Japanese Language and Literature

August 2012 – May 2016 | Boulder, CO, USA

#### Akita International University

*Study Abroad in Japanese Language and Culture*

March 2015 – August 2015 | Akita, Japan

#### Grand Canyon University

*Master's Degree in Secondary Education - Mathematics*

November 2017 – May 2019 | Phoenix, AZ, USA

### Skills

#### Language Proficiency

- English: Fluent (Speaking, Reading, Writing)
- Japanese: Intermediate (Speaking), Beginner (Reading, Writing)

#### Technical Skills

- Wiring Diagrams: Reading, Designing
- Schematics: Interpreting, Engineering Notes, IPC Standards, Work Instructions
- Microsoft Office: Word, PowerPoint, Excel, Outlook
- Adobe Products
- Odoo Systems
- Fusion Systems
- Research and Organization
- Interpersonal Skills: Empathy, Communication

#### Cable Harness Experience

- Troubleshooting, Harness Forming, Stripping, Splices, Mechanical Crimp, Solder Sleeve
- Mate/Demate, Crimping, Ring Connectors, Circular Assemblies, Wire Splice Terminal, Terminals, Pins
- Molex Tools, Daniels Tools, Ferrules, RJ45 Connectors, Coaxial Connectors, Pin Insert/Extract, Banding Clamps
- Component Recognition, Grounding and Shielding, Sleeving, Heat Shrink, Rework and Repair
- Power Tools: Heatgun, Heatsinks, Oven, Fumehood

#### Solder Experience

- Troubleshooting, Component Recognition, Splices, Lap, Lash, Hook, Solder Sleeve, Mechanical Crimp
- Coaxial Connectors, SMT Component, Through-Hole Component, Smallest AWG familiar usage - 32AWG
- Component Removal, Heatgun, Solder Sucker, Rework and Repair

#### Testing Experience

- Multimeter, Megohmmeter, STS Calibration, Safe to Mate, Continuity/Isolation, Basic Aliveness Testing

#### Internal Trainings

- Bonding & Adhesives, Polymerics, Mate/Demate Connectors, Staking, Conformal Coating, Lacing Harness and PCA
- Mechanical Assembly, Electrical Assembly

### Certifications

#### Blackfox Training Institute/Lockheed Martin

- IPC J-STD-001 | May 2020 – Limited Recertification 2022  
Serial No. J001S-20052757913
- IPC J-STD-001 Space Applications Electronic Hardware Addendum | May 2020  
Serial No. J001SPG-20060566698
- IPC-7711/7721 | May 2020  
Serial No. RRS-20060541008
- Cable and Harness IPC-620 | May 2022  
Lockheed Martin Internal Training

## **Career Experience**

### **Skyloom Global**

*Electrical Engineering Technician*

May 2023 – June 2024

- Focused on R&D, harness assembly, and PCA board rework in a cleanroom environment for flight assemblies.
- Contributed to the assembly, testing, and creation of fiber optic telecommunications systems.
- Gained proficiency in PCA board rework, harness manufacturing, masking, staking, and conformal coating tasks.
- Conducted quality control inspections (QCPs).

### **Lockheed Martin**

*LSTTB Fabrication Technician*

February 2022 – April 2023

- Built electrical cables/harnesses for racks and performed mechanical assembly of racks.
- Troubleshoot engineering drawings and addressed mechanical/electrical nonconforming tasks.

### **Winn-Marion Companies**

*Panel Wiring/Assembly Technician (Contract)*

December 2021 – February 2022

- Prepared, drilled, wired, and installed control panels into cabinets using engineering diagrams.
- Ensured proper wire laying for service, easy access, and clear labeling.

### **Astra Space**

*Electromechanical Technician (Contract)*

August 2021 – October 2021

- Conducted board population, part removal, and modifications to PCB/PCA.
- Acquired training in harness assembly, conformal coating, and precision cleaning.
- Lapped shims for camera projects using lapping stones and micrometer measuring tools.

### **BDI - Bridge Diagnostics Inc.**

*Electro-mechanical Technician (Contract)*

February 2021 – August 2021

- Engaged in soldering, wiring panels, preparing cabinets and panels, mechanical assembly, writing work instructions, and testing sensors and assemblies.
- Managed inventory items and facilitated the transition of the inventory system to a new program.

### **High School Teaching Assistant**

*Castle View High School*

2018 – 2019

- Graded homework, assisted in daily lessons, interacted with students, resolved issues, presented lessons, and created lesson plans.

### **Preschool Teacher**

*Waypoint Early Education*

2020

- Taught basic lessons to children aged 1-8, performed child care, and adapted to the needs of young students.