

Wendell L. Callaway IV

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SUMMARY: My goal is to obtain a position where I can use technical and personable skills to help me gain additional experience in leadership, management and various technical procedures. I aim to obtain company knowledge and build relationships, and utilize any training to become an asset to the company, with opportunities to progress.

EXPERIENCE:

Redwire Space, Longmont, CO — *Engineering Technician V*

APR 2025 - Present

- Senior-level 5 Electrical Engineering Technician focused on the assembly, testing, and verification of advanced electronics for space applications, particularly in RF systems and satellite communications.
- Provide input for work instructions and procedures for electronics soldering, assembly and testing.
- Review and interpret complex technical schematics, ensuring accuracy during the build, assembly and testing phases.
- Perform complex soldering and rework, including surface mount assembly for components as small as 0402, with proficiency in handling a wide variety of package types (e.g., QFN, QFP, TSOP, through hole connectors, etc.) under a microscope.
- Build and test multi-wire cable harnesses, including developing Interface Control Documents (ICDs) and conducting thorough verification testing.
- Participate in the assembly and testing of RF electronics hardware.
- Perform troubleshooting using Test Measurement and Diagnostic Equipment (TMDE), such as vector network analyzers, spectrum analyzers, signal generators, logic analyzers, oscilloscopes, and digital multi-meters.
- Read and interpret electrical and RF schematics.
- Perform integration of electronic components in support of rapid prototyping requirements.

Honeybee Robotics Ltd, Longmont, CO — *Production Lead Technician*

JUN 2021 - JAN 2024

- Manage production areas for Twist Cap/Power Transfer, guiding and developing technicians assigned to that area and partnered with Manufacturing Engineers, Planners and Production Supervisors to quickly troubleshoot and problem solve on the floor
- Follow standard work flow documentation
- Standard workmanship processes
- Soldering wire terminations, splices, and PCB work
- Polymeric (epoxy) mixing and application
- Cabling and harness assembly and modifications

- Precision mechanical assembly using standard hand tools and calibrated precision tools
- Testing and validation of assemblies
- Basic problem reporting Non-Conforming Material Processing
- Provide feedback to leadership and engineering regarding suggested updates to processes
- Follow safety and cleanliness protocols

Varian Medical Systems, Austin, TX — *Engineering Technician - Ablation*

FEB 2021 - JUN 2021

- Engineering Technician tasked with prototyping, assembling & testing of medical devices and creation of fixtures for the development of ablation systems.
- Design, manufacture, and modify components used in testing fixtures for Cryoablation and Microwave Ablation systems.
- Thoroughly document processes and procedures for future assemblies and design revisions
- Worked closely with design and mechanical engineers to develop standard operating procedures for assemblies
- Utilized variety of tools and equipment - drill press, lathe, dremel, soldering irons, spot welder, micro tooling, calipers, digital multimeters
- Set up and maintained calibration for testing equipment
- Provide feedback to engineers regarding best methods of assembly for testing equipment and devices
- Generate CAD models using SolidWorks
- Follow safety standards and maintain clean work area

ThorLabs, Austin, TX — *Assembly Technician II*

NOV 2020 - FEB 2021

- Research, design and manufacturing of low-noise scientific cameras and related imaging systems
- Assembled scientific-grade cameras for microscopy and other applications utilizing detailed work instructions.
- Programmed and tested camera functionality and lens/sensor cleanliness utilizing various programming software and testing fixtures.
- Recorded time and closed out production orders utilizing internal tracking systems.
- Worked in a low class clean room while following ESD control requirements.
- Utilized a variety of hand tools for assembly including hex drivers, spanner wrenches, tweezers, motorized drivers, and various jigs for proper centering of components into housings.
- Cleaned and packaged completed cameras with appropriate cables, tools, documentation and labels in preparation for shipment.
- Prepared outgoing shipments by boxing, taping and generating shipping labels/documentation for daily FedEx pick ups.
- Hand soldered SMD and PTH components to PCB boards utilizing soldering irons.
- Modified power supplies for cameras utilizing soldering iron, wire strippers/cutters, and silicone adhesive.
- Packaged and labeled various camera accessories to be sold separately.

- Maintained clean work space both in and out of the clean room.

Honeybee Robotics Ltd, Longmont, CO — *Manufacturing Technician III*

FEB 2017 - SEPT 2020

- Flight Systems/Motion Control Manufacturing Technician III producing satellite mechanisms and solar arrays for Spacecraft Systems, Planetary Exploration and Defense R&D.
- Followed detailed work instructions using electrical and mechanical schematics/drawings to assemble various space/flight hardware products.
- Utilized various calibrated tools for assembly and testing of products, including dial torque watches, torque drivers and wrenches, digital multimeters, power supplies, calipers, micrometers, crimpers, soldering irons, wire terminal testers, force gauges and scales.
- Trained and certified to mix, apply and inspect polymeric materials used in assemblies for bonding, staking and encapsulation.
- Trained and certified to solder and inspect Class 3 hardware (High Performance/Harsh Environment Electronic Products).
- Utilized non-calibrated tools for wire preparation including mechanical and thermal wire strippers, solder pots, wire cutters, exact-o blades (for twisted shield wires), and heat guns.
- Maintained clean workspace per requirements of NASA Technical Standards, Joint Industry Standards and standards requested by customers.
- Worked in Class 6 and Class 8 clean rooms and followed ESD Control ANSI requirements.
- Work closely with design and manufacturing engineers to create proper work instructions prior to assemblies going into production.
- Reviewed all work orders prior to submitting to Quality Assurance upon completion of assemblies.
- Photo/video documented work progress as needed per work instructions using DSLR.
- Pulled and issued parts from inventory for assemblies using build of materials list or drawings/schematics.
- Performed incoming inspection of populated PCB boards and flexible tape circuits prior to release on the production floor.
- Assisted in testing of assemblies by setting up hardware on test fixtures prior to shock, vibration, and thermal vacuum chamber testing.

SparkFun Electronics Inc, Niwot, CO — *Lead Technician*

DEC 2011 - JAN 2017

- Final Assembly Lead Technician tasked with the production of consumer electronic components, specifically, breakout boards and Arduino based boards utilized in educational and DIY electronic kits
- Depanelize PCB boards for soldering and testing.
- Soldered PTH and SMD components onto PCB boards using soldering irons, solder paste, reflow ovens and pick and place machines.
- Trained and certified to rework and repair PCB boards and components.
- Pulled parts from inventory using a build of materials list.
- Programmed and tested PCB boards using in-house testing jigs and fixtures, digital

multimeters, oscilloscopes, AVR and Atmel programmers.

- Performed quality control inspections of completed builds prior to packaging.
- Created standard operating procedures for the technicians to follow.
- Worked closely with the electrical engineering department for development of prototype PCB boards.
- Worked with gerber files to produce PCB stencils for prototype boards.
- Issued builds to technicians.
- Worked with the Production Manager and Production Director to develop efficient work flow practices.

EDUCATION:

The University of Alabama, Tuscaloosa, AL — No Degree

August 2022 - December 2023

Mechanical Engineering (On-line Degree)

Blackfox Training Institute, Longmont, CO — IPC Certifications

December 2014 - August 2025

Trained and certified to CIS and CIT levels for J-STD-001 and CIS for 7711/7721

Metropolitan State University of Denver, Denver, CO — No Degree

August 2008 - December 2010

Journalism with an emphasis on Photojournalism. Minor in Philosophy. 90 semester hours completed.

Dakota Ridge High School, Littleton, CO — HS Diploma

August 2002 - May 2006

CERTIFICATIONS:

CIS IPC-7711/7721 Rework and Repair of Electronic Assemblies - 2025

CIS/ IPC-J-STD-001J Soldered Electrical and Electronic Assemblies - 2025

CIS/ IPC-J-STD-001J Space Applications Soldered Electrical and Electronic Assemblies - 2025

CIS/CIT IPC-J-STD-001HS Space Applications Electronic Hardware - 2023

NASA-STD 8739.6A Workmanship Standards - 2023

NASA-STD 8739.1B Workmanship Standards: Polymeric Application on Electronic Assemblies - 2023

NASA-STD 8739.4A Workmanship Standards: Crimping, Interconnecting Cables, Harnesses and Wiring-
2023

NASA/JPL Mechanical Hardware Assembly - 2018

OPERATOR Electrostatic Discharge Control ANSI - 2023

ADDITIONAL SKILLS:

Photography (DSLR operating and photo editing)

Videography (Video recording and editing)

3D Printing (Design and fabrication)

SolidWorks

Microsoft Office (Word, Excel, Powerpoint, Teams)

Technical writing (Standard operating procedures)

Facilities management

Professional references available upon request.