

Philip Bartlett

Electrical, Mechanical, Automotive & Aeronautical Engineering Technologist

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Professional Summary

Results-driven engineering technologist with over two decades of experience in electrical, mechanical, and automotive applications. Adept at optimizing manufacturing processes and driving innovation through practical engineering techniques. Skilled in project management, team leadership, equipment maintenance, and automation systems. Proven track record in enhancing productivity and reducing downtime in manufacturing and industrial settings.

Key Skills

- **Automation & Controls:** Proficient in PLC logic design, Motor Controls, Variable Frequency Drives (VFDs), and Human Interface Devices. Experienced with measurement sensors, actuators, oscilloscopes, micrometers, calipers, multimeters, and other precision measuring and analytical instruments.
- **Manufacturing Expertise:** Extensive experience in equipment maintenance, refurbishment, and repair. Skilled in metal fabrication techniques, manufacturing and fabrication process steps, and engine repair.
- **Project Management:** Successful in planning, budgeting, and resource allocation for engineering, maintenance, and manufacturing projects.
- **Team Leadership:** Effective in mentoring and supervising technical and mechanical teams to improve efficiency and productivity.
- **Problem Solving:** Analytical approach to troubleshooting, identifying root causes, and implementing innovative and productive solutions.
- **Technical Communication:** Strong verbal and written communication skills for technical reports and cross-functional collaboration.

Education

- **Bachelor of Science in Engineering Technology**
 - Embry-Riddle Aeronautical University, Cum Laude, Jan 2020
 - Concentrations: Aeronautical Science, Unmanned Aerial Systems
- **Associate of Applied Sciences in Electronics and Computer Engineering Technology**
 - Chattahoochee Technical College, Dec. 2010
 - Specialization: Biomedical Engineering Technology

Professional Experience

Maintenance Supervisor – Voestalpine Automotive Components *Jan 2025 – June 2025*

- Supervise maintenance operations for cold forming press systems used in automotive component manufacturing, ensuring optimal machine uptime and product quality.
- Lead root cause analysis and implement corrective actions for press-related downtime, leveraging Lean and Kaizen principles to drive continuous improvement.
- Coordinate preventive maintenance schedules across shifts, improving equipment reliability and reducing unplanned failures.
- Train and mentor a team of technicians on safety protocols, standardized work procedures, and efficient troubleshooting techniques.
- Collaborate with engineering teams to optimize press tooling, setup efficiency, and mechanical system performance.

Permitting Engineer, Framework Telecom, *Oct 2022 – Sep 2024*

- Implemented a digital storage system for drafting files, boosting accessibility and reducing retrieval time, enhancing project documentation efficiency.
- Upgraded computer systems to integrate with advanced drafting software, resulting in improved workflow efficiency and reduced technical errors.
- Collaborated with cross-functional engineering teams to drive project development while ensuring compliance with regulatory standards.
- Produced detailed technical drawings and permits, ensuring smooth project execution and quality control.

Shop Foreman, Martin Concrete Construction/Martin Finishing *Jan 2021 - Aug 2022*

- Streamlined shop equipment workflow, achieving significant productivity gains in the first 90 days by leveraging technology-based tracking systems, inventory control, and maintenance scheduling systems.
- Developed and implemented a parts and inventory management system, reducing downtime and supporting efficient maintenance operations.
- Repaired and restored over 80 pieces of equipment initially set for disposal, using my own technical expertise to bring them back to operational standards.
- Supervised and trained a team of technicians, focusing on best practices in equipment handling, mechanic techniques, and safety protocols.
- Developed a comprehensive preventive maintenance program, incorporating several separate programs for inventory purchase scheduling, maintenance planning, and equipment tracking.

Maintenance Technician/Flight Line, Phoenix Air Unmanned**2020 - 2021**

- Maintained Unmanned Aerial Systems (UAS) and field operations equipment, ensuring readiness and compliance with safety standards through technical maintenance protocols.
- Utilized tracking software and oscilloscopes to monitor motor operations, ensuring reliability during critical aerial tracking missions.

Technician/Refurbisher, Fizz Dispense**2015 - 2017**

- Refurbished nitrogen generators, including electrical troubleshooting, part replacement, and painting, to restore full functionality.
- Conducted pre-delivery testing and quality checks to guarantee correct operation of refurbished equipment.
- Implemented technological solutions to streamline the refurbishment process and improve efficiency.

Equipment Technician, Taylor Farm Supply**2013 - 2015**

- Worked across multiple business functions, gaining diverse experience in parts, sales, assembly, and service.
- Specialized in the repair and maintenance of home-owner equipment and 2-Cycle engines, focusing on quick turnarounds and high-quality service.

Technician/Refurbisher, Auxo Medical**2012 - 2013**

- Refurbished a variety of medical equipment, including sterilizers, patient monitors, washers, surgery tables, and beds, focusing on precise electrical repairs and calibration to ensure reliable operation.
- Conducted electrical safety tests on refurbished equipment, ensuring compliance with industry regulations and maintaining the highest safety standards.
- Diagnosed and repaired complex electrical components, such as circuit boards, wiring harnesses, and electronic control modules, using specialized diagnostic tools and equipment.
- Replaced faulty components, including capacitors, resistors, and transistors, to restore proper function and extend equipment life.
- Conducted thorough quality checks and performance tests to validate that refurbished equipment met manufacturer specifications and operational requirements.

Maintenance Technician, Beverage House Inc.**2007 - 2012**

- Oversaw the setup, programming, and maintenance of Programmable Logic Controllers (PLCs) in beverage production, ensuring smooth automation and minimal downtime.

- Configured and maintained Variable Frequency Drives (VFDs) to optimize motor control and energy efficiency in production lines.
- Conducted comprehensive repairs and maintenance on a wide range of manufacturing equipment, including bottling, packaging, labeling machines, cooling towers, and sorting equipment, supporting continuous production with minimal down-time.
- Implemented PLC-based control systems to maintain precise control over production processes, ensuring production consistency and safety.
- Managed complex equipment like a 500-gallon steam boiler and aseptic fillers, utilizing advanced automation technologies for safety and efficiency.