

Sean Ryan

6484 Sedgwick St, Elkridge MD 21075
(443)872-1951 | Sryan199@yahoo.com

SUMMARY

Technically skilled maintenance professional with 5+ years of hands-on repair experience and a strong commitment to aviation. Experienced in troubleshooting mechanical systems, performing diagnostics, and working effectively in demanding environmental conditions. Detail-oriented and safety-focused, with a proven ability to follow technical procedures, ensure equipment reliability, and deliver consistent, high-quality results across both physical and digital systems.

EDUCATION & CERTIFICATIONS

Pittsburgh Institute of Aeronautics, Hagerstown, MD
FAA Airframe and Powerplant Certification, Pending
GPA 3.76

Graduating August 21, 2026

- Representing PIA HGR as one of five team members at the 2026 Aerospace Maintenance Competition (AMC) at MRO Americas in Orlando, FL.
- Student volunteer supporting PIA open houses, coordinating event setup and advising prospective students on A&P certification and career pathways.

Pool & Hot Tub Alliance

November 2022

Certified Pool & Spa Maintenance Specialist (CMS)

Howard Community College, Columbia, MD
High School Diploma

Graduated November 2017

JOB HISTORY

Frederick Aviation Maintenance, Frederick, MD
Aircraft Maintenance Internship

February 2026 – Present

- Perform 100-hour inspections in accordance with FAR Part 43 and manufacturer maintenance manuals.
- Inspect and service airframe structures, reciprocating engines, and propeller systems on General Aviation aircraft.
- Carried out new engine installation, including system reconnection, rigging, and operational checks.
- Verify maintenance records, airworthiness certificates, and AD compliance.
- Conduct 50-hour oil and filter changes, compression checks, and routine servicing procedures.
- Proficient in the use of aviation hand tools, calibrated torque wrenches, pneumatic tools, precision measuring instruments, and shop power equipment.
- Maintain organized work areas in accordance with safety and FOD prevention standards.

Sweetwater Pool & Spa Center, Ellicott City, MD
Service Maintenance Technician

September 2019 – Present

- Inspected, tested, diagnosed, and repaired malfunctioning pool equipment, including pumps, filters, heaters, heat pumps, chlorine generators, and automation systems; using tools such as multimeters and monometers, ensuring efficient performance and longevity of systems.
- Utilized precision diagnostics and mechanical troubleshooting, including pressure testing, dye testing, and listening devices such as geophones to identify leaks in pool plumbing & pool structures.
- Installed, configured, and maintained smart pool equipment to improve remote diagnostics and client interaction, allowing customers to monitor and control their pools via smartphones and tablets.

SKILLS

- Advanced Computer Diagnostics (Hardware & System-Level Troubleshooting)
- Precision Micro-Soldering & Circuit Board Repair
- System Fault Isolation Using Technical Data
- 3D Printing (Prototype Fabrication & Custom Part Production)
- Structured Data Management & Digital Archival Systems