

# Zachary Davis (Dave) Jeffers, A&P

## CONTACT

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## OBJECTIVE

To lead a team delivering high-impact outputs, utilizing my theoretical, business, and technical expertise

## EDUCATION

Purdue University, ABET Certified  
West Lafayette, IN  
B.S Aeronautical Engineering  
Technology with A&P Option  
Graduated May 2014, with Honors  
GPA: 3.6/4.0 Major GPA: 3.7/4.0

## SKILLS

### **Business**

Team leadership  
Creative problem solving  
Customer interaction  
Export compliance and classification (EAR & ITAR)  
Product lifecycle analysis  
Microsoft Office

### **Project Management**

Program management  
Six Sigma processes  
Microsoft Project  
Work instruction creation  
Quality controls and investigations  
Purchase and sales order creation and modification

### **Technical**

Design suites (NX, Pro-E, CATIA, Autodesk Inventor)  
Composite layup & repair  
Metallic coating and repair  
Welding and machining procedures  
Non-destructive test methods  
Advanced aircraft systems  
National Instruments LabVIEW

## ACCREDITATIONS

- Airframe & Powerplant Certification
- Non-Destructive Testing:
- Level 1 Eddy Current
- Level 2 Magnetic Particle
- Level 2 Fluorescent Penetrant

## WORK EXPERIENCE

**Pratt & Whitney AutoAir Inc.** Lansing, MI, June 2014 – Present

### **MRO Engineering Manager**

- Develop, coach, and lead nine-person Engineering team to support work instruction creation and upkeep, standard work generation, and process optimization
- Review \$5M capital spending budget; determined waterlined projects and allocations based on maximizing strategic impact to business
- Generate bid packages and long-term agreements for Geared Turbo Fan fleet program, projected to generate \$40M in sales over agreement period
- Spearhead creation of new plant layouts using 6 Sigma methodologies, while minimizing cost, operating expenses, labor hours, and new capital procurement

### **Repair Development Engineer & FAA CLEEN Program Manager**

- Created, implemented and validated new repairs for metallic and composite parts, including the first PW1100 NEO engine fan blade repairs in the world
- Grew “Next Generation Product Family” MRO blade/vane cell from conceptualization to production, generating over \$1M in monthly sales
- Interfaced with leadership teams to validate repair process standard work and manage financial, quality, operations, and facility needs and expectations
- Managed small cross functional team to create OEM cold section parts while leading customer interface by answering all engineering, quality, and scheduling questions
- Created, modified, and managed purchase orders and sales orders to ensure expedient delivery of high-quality parts

### **Manufacturing Engineer**

- Dispositioned parts and assemblies of PW4000 Thrust Reversers to determine status, corrective action, and preventive steps to ensure commonly damaged parts were handled appropriately
- Initiated new repairs, provided the recommended method was deemed cost effective, for parts that were normally beyond listed repair limits
- Executed complex composite repairs, requiring enhanced validation; steps include determining material properties, collaborating with teams to ensure correct methods and data, and overseeing implementation process

**Duncan Aviation** Battle Creek, MI, June 2013 - August 2013

### **Airframe Intern**

- Performed inspections, troubleshooting, and maintenance for corporate jets by collaborating with team members and reading and interpreting engineering documents
- Worked with team to complete first-ever 10,000-hour inspection on a Learjet 45

**Purdue University, Aviation Technology Department** West Lafayette, IN, January 2012 – May 2014

### **Research/Teaching Assistant**

- **Aircraft Electrical Systems Class:** Taught students to use multimeters and wiring diagrams to understand, troubleshoot, and fix electronic systems; led team in researching ways to link labVIEW coding software into electrical mockups to interpret data
- **Non-Destructive Testing Class:** Instructed undergraduates how to use non-destructive testing methods such as magnetic particle testing, visible penetrant testing, eddy current testing, and ultrasound testing
- **Engine Testing Team:** Performed tests to determine mass moment of inertia of reciprocating engine; researched and developed processes to install dynamometer with fuel supply and engine test stands
- **Alternative Fuels Team:** Researched alternative biofuels as a drop-in fuel in the aviation industry; collaborated with other team members to compile a paper for publication

**Tong Computer Consulting** Evanston, IL, June 2011 – August 2012

### **Summer Intern**

- Installed parts such as graphics cards, hard drives, and processors
- Added and executed partitioning, malware blockers, and defragmenting software on new computers

## ACTIVITIES

- Pratt & Whitney Pollution Prevention Committee Leader
- Pratt & Whitney Employee Engagement Leader
- Capital Area Disc Association Vice President
- Purdue Men’s Ultimate Frisbee Club Co-Captain

## ACHIEVEMENTS

- P&W FAA CLEEN Program Management Eagle Awards
- P&W Development Engineering Support Award
- Golden Key Honour Society