QUALIFICATIONS SUMMARY

Nine years of experience as a Mechanical Engineer; EIT; B.S. in Mechanical Engineering; USAF Veteran; Technical Problem Solver; Product Designer, 3D CAD, FEA Software; Dedicated to my profession. Comfortable in a team environment or solo.

CAREER SUMMARY

Project Manager / Mechanical Engineer, EIT

Mechanical Specialties / NW Helicopters 1000 85th Ave SE

Olympia, WA 98501

Primary Projects: Helicopter Cargo Hooks

- Coordinated, scheduled, and managed multiple ongoing projects simultaneously.
- FAA Liaison; coordinated with FAA for new project certification requirements, priority levels, project schedules.
- Performed duties as Test Engineer for electrical, structural, or fatigue testing.
- Performed structural, electrical, fatigue analyses and finite element analyses.
- Composed technical reports for structural, electrical, fatigue analyses and tests for certification purposes.
- Designed components to: 1. ensure adequate strength, 2. comply with FAA regulations, and 3. be marketable.
- Drafted 3D models, assemblies, installations and technical drawings using Solidworks CAD.
- Worked with machinists to refine R&D and production part designs to simplify manufacturing processes.
- Tracked manufactured components from concept to manufacturing; making design improvements as necessary.
- Established Document Control System.
- Authored / revised AS9100 related departmental procedures.

Mechanical Engineer, EIT

Soloy Aviation Solutions 450 Pat Kennedy Way Southwest

Olympia, WA 98501

Primary Projects: Engine conversions in small airplanes and helicopters.

- Performed structural, electrical, and finite element analyses of aircraft systems and equipment.
- Drafted 3D models, assemblies and technical drawings using Unigraphics NX CAD.
- Composed structural, electrical, thermal, and other technical reports for certification of aircraft products.
- Performed duties as Test Engineer for structural or thermal testing.
- Revised manuals and other technical publications.
- Researched new products.

Network Engineer (Airborne Systems Engineer)

United States Air Force

97th Intelligence Squadron

Offutt Air Force Base, Bellevue, NE

Technical Environment – Reconnaissance Aircraft with 20+ workstations, servers, and test equipment, all on a Cisco network.

- Lead team of four technicians in operating diverse computer network. Manage workload for team.
- Set maintenance priorities; delegate tasks for completion.
- Troubleshot, repaired equipment and developed solutions for long term system stability.
- Established clear, detailed documentation that provides users with procedures to ease future troubleshooting.
- Demonstrated attention to detail, ensuring 100% functionality on supported systems.
- Wrote reports and implemented changes based on system tests.
- Analyzed test results and recommended or performed corrective action to system components to ensure most efficient operation possible.
- Referenced technical manuals, block diagrams, and wiring diagrams to isolate malfunctions.

Full Time, Hourly Position Phone: (360) 273-7604

7/30/12 - 9/28/18

Full time, Salaried Position Phone: (360) 754-7000

10/11/18-8/31/21

2002 – 2008

Full Time, Salaried Position

EXPERIENCE

Mechanical Engineer, EIT. 9 years. Focus in Aviation, modification of small airplanes and helicopters. Currently capable of, but not limited to:

- 3D CAD Drafting (Unigraphics NX, Solidworks) for new product design, redesign of existing products, digitization of • legacy drawings.
- Setup and execution of Finite Element Analysis models using Solidworks Simulation / ANSYS Workbench Software. ٠
- Perform structural, electrical, fatigue, thermal analyses of components, systems, and aircraft. ٠
- Publish substantiation reports for structural and electrical installations, containing test results or analyses. •

EDUCATION

Bachelor of Science in Mechanical Engineering Saint Martin's University, Lacey, WA 98503	2012
Associate of Applied Science in Information Systems Manage Air University, Maxwell-Gunter Air Force Base, AL 3611 (Formerly Community College of the Air Force)	
JOB RELATED TRAINING	
BSME, Saint Martin's University	2012
Fundamentals of Engineering Exam	2012
PROFESSIONAL AFFILIATIONS	
American Society of Mechanical Engineers	2009
Society of American Military Engineers	2012
Pi Tau Sigma, Saint Martin's Alpha Tau	2012
Order of the Engineer	2012
HOBBIES / PROJECTS	
Tinkerer / Mechanic / Builder	
Computer Builder	since 1992
Interested in Automotive Design	since 1993
Self-taught Automotive Mechanic / Gearhead	since 2000
Small Engine Repair	since 2012
Soundboard Operator	since 2016
REFERENCES:	
Reland (Resta) Revers CAD Designer	offroy Fox FAA Decignated

Jeffrey Fox, FAA Designated Engineering Representative
Medford, OR
Cell: (541) 210-4127
Stephen Phoenix, Mechanical Engineer (PE)
Stephen Theenix, Weenaniear Engineer (TE)
Olympia, WA 98501

Dr. Isaac Jung, Ph.D., P.E. Professor, Mechanical Engineering St. Martin's University, Lacey, WA Office Phone: (360) 688-2740