

Alan Ward

✉ alan.ward1@me.com

☎ 432-934-2540

🌐 www.alansprojects.com

Design Engineer with over 5 years experience in defense and commercial aviation. Proficiency in mechanism design, vehicle structure design, rapid development, and design for survivability. Seeking to build on my experience in a roll that demands abstract problem solving and quality engineering craftsmanship.

CERTIFICATIONS

Security Clearance

US Government

GD&T Course

(Oct 2020)

Boeing

SKILLS

Model Based Engineering



SolidWorks, NX, Fusion 360, Autodesk Inventor, CATIA, Teamcenter / PLM, ENOVIA

Manufacturing



Composite Materials, Additive Manufacturing, CNC Machining, FSDA, Work Instructions / MBIs

Software Development



C#, VBA, SQL, C++

Communication



Proposal Writting, Program Management, Proficient with Microsoft Office Suit

Problem Solving



INTERESTS / HOBBIES

3D Printing RC Plane Design

Home Servers Networking

Woodworking Crafts

Aerospace New Technology

WORK EXPERIENCE

Structures Design

(Oct 2022 - Present)

Survivability Technology, Phantom Works

- R&D type roll focused on both long term and quick turnaround design projects, typically low TRL/MRL
- Designing, building, and testing of survivable products
- Strong focus on mechanism design for materials testing
- Development of TRL of new Technology

Structures Design

(Jan 2022 - Oct 2022)

Hypersonic Vehicle Design, Phantom Works

- Lead Design Engineer for avionics' structural components
- Fast paced rapid design environment
- Worked with unique and extreme design requirements

Manufacturing Engineer

(Oct 2018 - Jan 2021)

777X, Manufacturing

- 777X Fixed Leading Edge Manufacturing Engineer
- Worked along side various PE functions to safely and efficiently implement updates to the design and build of the 777X
- Gained insight on how to proficiently design parts for producibility
- Acquired the skill set for creating Model Based Instructions and Work Instructions for Boeing operators
- Attained extensive knowledge on the use of Teamcenter and manipulation of the BOM

EDUCATION

Texas Tech University

(Jan 2014 - May 2018)

Mechanical Engineering, Bachelors of Science
Minor, Mathematics