# Aidan Boyer

## **Mechanical Design Engineer**

Pragmatic perfectionist. Excels at generating novel mechanical concepts, with the expertise to transform PowerPoint engineering into functional hardware. Background in Robotics, 3D Printing, and Automotive Engineering.

#### Contact

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## **Education**

B.S. MECHANICAL ENGINEERING, MINOR IN ENGINEERING MANAGEMENT

University of Colorado, Boulder – May 2024.

### **Skills**

CAD (2000+ Hours: NX, Fusion 360, & Solidworks)

GD&T (ASME Y14.5 Professional)

Prototyping (7 Years of 3D printing experience, 9 years of robotics.)

FEA (Femap/Nastran)

Programming (Matlab, C++, EES)

## **Experience**

#### MECHANICAL ENGINEER 1 | SIERRA SPACE

June 2024 – August 2025 (Current)

**SMS Satellite Design Engineer |** Responsible for modeling, drafting, and releasing flight hardware.

Systematic design methodology managing DTC/manufacturability, mass, stiffness, harnessing, EMI, thermal, grounding, pointing, and geometric constraints simultaneously.

Uses equation driven base sketching to create parametric models and express design intent, reducing churn between analysis cycles and improving traceability.

Highly collaborative role, working with analysts, checkers, quality, AI&T, and many more to ensure requirements are met.

**BD Design Engineer** | Responsible for development and assembly of non-flight prototype TLA's (Top Level Assemblies) given tight schedule and budget constraints.

Released 100+ components within first year, including 3 BD TLA's on time and under budget, with minimal oversite.

#### **LEAD INSTRUCTOR | ROBOT REVOLUTION**

May 2019 - August 2021

Taught fusion 360 to high school students. Encouraged holistic design – developing the entire system instead of compartmentalizing components into subsystems. Explained fundamental mechanical concepts such as friction, gear boxes, linkages, and lifts.