

# Harrison W. Grant

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## Skills

- **Fabrication:** 3D printing (FDM, SLA, SLS), 2D cutting (water jet, laser cutter), woodworking, metal machining (manual and CNC), sheet metal construction
- **Software:** Solidworks, OnShape, Fusion 360, Java, C, MATLAB, Cura, DaVinci Resolve, Premiere Pro

## Education

### Boston University College of Engineering

**Boston, MA**

*Bachelor of Science in Mechanical Engineering*

*Expected May 2026*

- 3.8 GPA, Dean's List
- University of Sydney study abroad with work experience spring semester 2024
- Coursework: CAD, Coding, Differential Equations, Product Design, Manufacturing, Structural Mechanics

## Experience

### Formlabs Inc - Innovators in additive manufacturing

**Somerville, MA**

*Research and Development Intern*

*Summer 2024*

- Performed design for manufacturing (DFM) optimizations to make complicated geometry manufacturable with in house tools, saving time and cost versus outsourcing
- Designed and ordered sheet metal parts to assemble bespoke filter box integrating with air circulation system
- Ideated, built, and implemented testing rig to validate functionality of mission-critical components

### Inventia Life Science - Series B-funded bioprinting startup

**Sydney, NSW**

*Engineering Intern*

*Spring 2024*

- Designed and executed series of experiments to evaluate multiple bio-printer accuracy metrics simultaneously
- Improved image-processing workflow by creating spreadsheet to aggregate data en masse and expose trends
- Presented to senior managers, engineering team about hardware fixes to address axis-level imprecision

### Boston University Gliding and Soaring (BUGS)

**Boston, MA**

*Executive Board and Founding Member*

*Fall 2023 - Present*

- Trained in wing removal for Stemme S6 self-launching glider including positive control surface safety checks
- Designed multi-part center console plate to prevent wire fatigue and extend operational length of components
- Drew template to water jet cut carbon fiber sheet and created system for interchangeable 3D printed inserts

### Pursuit Aerospace - Manufacturer of complex aircraft components

**Malden, MA**

*Manufacturing Intern*

*Summer 2023*

- Designed, prototyped, 3D-printed custom protective cover for engine intake to protect high value parts during transit within manufacturing facility
- Iterated on design after operator feedback to ensure not only functionality but ergonomics and convenience
- Identified systematic issues causing major defects in important product line

## Projects

### Laser Communication System

- Improvised binary encoding scheme and wrote code to efficiently encode and send five digit messages
- Created complete CAD model of a fully 3D printable turntable powered by continuous servo motor

### BU Terrier Motorsport - Electric Racing Club (Society of Automotive Engineers)

- Took initiative to learn lathe and manual mill operation in order to fabricate parts
- Collaborated during technical discussions to offer unseen solutions to roadblocks reached by team members

### Model Plane Construction

- Spent 2 years constructing and testing model plane, learning from setbacks, with the goal of preventing any particular mode of failure from happening twice
- Learned from original plane to lead less technically capable teammates and construct larger model