

# Eli Thummel

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Portfolio: <https://www.impulse3d.design/elithummel>

## EDUCATION

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**University of Notre Dame** | Notre Dame, IN Graduation May 2025  
*Bachelor of Science in Mechanical Engineering* *GPA: 3.6*

**Notre Dame Preparatory** | Pontiac, MI Graduation May 2021  
*International Baccalaureate Program Graduate* *GPA: 4.26*

## EXPERIENCE

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**Stellantis** | Warren, MI May 2023 – July 2023  
*Materials Logistics Management Intern*

- Created completely automated inventory reporting for steel processes in Warren Stamping Plant
- Managed steel logistics both on and off the plant floor.

**Engineering Innovation Hub** | Notre Dame, IN August 2022 – Present  
*EIH Lab Assistant*

- Teach students and aid in the manufacturing of class/personal projects using mills, lathes, CNC's, and 3D-printers

**Impulse3D LLC** | South Bend, IN / Beverly Hills, MI May 2022 – Present  
*Co-Founder*

- Established a small company specializing in high end custom 3D printing, manufacturing, and design services.
- (website: <https://www.impulse3dprinting.com/>)

**Magna International** | Auburn Hills, MI June 2022 – August 2022  
*Optics Engineering Intern*

- Designed, manufactured, and tested a new optical fixturing system based on a known problem in automotive cameras.
- Conducted extensive design work with current engineers in Solidworks and Catia for various VW, BMW, and Toyota projects.
- Researched and created a new streamlined lighting system that was successfully able to integrate D65 and infrared lights at measured light intensities.

**Innovation Lab at the IDEA Center** | Notre Dame, IN January 2022 – May 2022  
*Design/Manufacturing Undergraduate Engineer*

- Designed and prototyped products for potential start-up companies as well as other engineering products produced in the machine shop.
- Worked with different customers, engineering specifications, and design practices to utilize laser cutting, CNC milling, or 3D printing to prototype a product

**Lumen North America** | Rochester, MI February 2021 – August 2021  
*Additive Manufacturing Intern*

- Established an additive manufacturing presence and managed 3D printing for both prototype and end-use parts
- Pioneered multiple electrical and mechanical projects including a product showcase trailer and a new product testing device

## LEADERSHIP AND ACTIVITIES

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**Fighting Irish Racing – Formula SAE** | Notre Dame, IN August 2021 – Present  
*Technical Director*

**FIRST Team 33 – Killer Bees** | Pontiac, MI August 2018 – June 2021  
*FIRST Robotics Team Leader*

## TECHNICAL SKILLS

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3D Printing – FDM, SLA, SLS CNC/CAM Programming / FEA, CFD Mechanical Design  
CAD – Solidworks, Catia, Inventor, Fusion 360, AutoCAD Machining – CNC, Mill, Lathe, TIG welding