

# ISAIAH KOL

MECHANICAL ENGINEERING SOPHOMORE

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## SUMMARY

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Mechanical engineering student with a background in competitive robotics and direct experience designing, fabricating, and iterating mechanical systems rapidly under practical constraints.

## EDUCATION

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**UNIVERSITY OF VERMONT** | Burlington, VT AUG 2024 – PRESENT

***Bachelor of Science, Mechanical Engineering* | Expected May 2028**

- GPA: 3.80 | Dean's List
- Relevant Courses: Thermodynamics (A); Applied Thermodynamics (A); Advanced 3D Drafting (A+); Statics (A+); Calculus III (A+); Computer Programming I (A); First-Year Design Experience (A).

## PROFESSIONAL EXPERIENCE

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**OPERATIONS MANAGER (IN-TRAINING)** | UVM FABLAB DEC 2025 – PRESENT

- Promoted to Operations Manager; shadowing current manager with full leadership transfer by May 2026.
- Coordinate technicians and oversee day-to-day lab and equipment operations.
- Drive workflow, equipment, and space improvements to optimize lab efficiency and engagement.
- Balance leadership duties with full technician responsibilities.

**TECHNICIAN** | UVM FABLAB SEP 2025 – DEC 2025

- Operated 15+ 3D printers and other fabrication equipment for student projects and university research.
- Supported clients with CAD, projects, and in-house equipment use.
- Supported lab organization, safety practices, and routine machine maintenance.

**LINE COOK & COUNTERWORKER** | DARTMOUTH COLLEGE DINING SERVICES AUG 2022 – AUG 2024

- Balanced customer service with food prep and cooking in a fast-paced dining environment.

## ADDITIONAL EXPERIENCE

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**GAP-YEAR: ROBOTICS COACH** | THETFORD ACADEMY ROBOTICS TEAM AUG 2023 – JUN 2024

- Mentored students aged 12-18 in iterative design processes, both in CAD and hands-on prototyping.
- Instructed and supervised safe, proper operation of tools and equipment.

**ROBOTICS TEAM** | VEX ROBOTICS COMPETITION SEP 2017 – JUN 2023

- Collaboratively responsible for design, construction, and technical documentation.
- Four-time competitors at VEX World Championship; 2023 NH/VT State Champions; recipients of three Design Awards and three Excellence Awards at the regional (NH/VT) level.

**INTERNSHIP AT HYPER THERM & FUJIFILM DIMATIX** | LEBANON, NH AUG 2021 – JAN 2022

- Gained exposure to manufacturing practices and engineering environments.
- Built foundational skills in CAD and CNC/manual machining through guided projects.

## SKILLS

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**CAD:** SOLIDWORKS, AutoCAD

**Fabrication:** FDM 3D Printing, Design for Manufacturability, Basic Machining, Automotive & Electrical Repair

**Software:** Microsoft Office Suite (Excel proficient), Python, PrusaSlicer, Bambu Studio