

ISAAC DOBIE

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EDUCATION

Massachusetts Institute of Technology

Class of 2027

B.S. in Mechanical Engineering — GPA: 5.0/5.0

Cambridge, MA

Relevant Coursework: Design & Manufacturing I, Numerical Computation, Dynamics & Control I, Mechanics of Materials I, Electronics for Mechanical Systems, Intro to CS & Programming, Designing for the Future

EXPERIENCE

AutoStore

June 2025 - Aug. 2025

Solution Consulting Intern

Salem, NH

- Worked with the AI Solutions team to incorporate machine learning into AutoStore's data analysis platform.
- Built a machine learning model and the corresponding application to predict and optimize robot performance.

MIT Mission Innovation X

Sep. 2024 - Present

Undergraduate Researcher

Cambridge, MA

- AI researcher working on analysis and evaluation software for flight test education and development.
- Presented initial findings as a team to the MIT Office of Innovation and the U.S. Air Force.

Quible & Associates P.C. (*Acquired by WithersRavenel*)

May 2024 - Aug. 2024

Engineer Intern

Powells Point, NC

- Used AutoCAD to design site plans and other client-facing models.
- Completed on-site leakage tests and inspection reports.

MIT Civil & Environmental Engineering

Jan. 2024 - Aug. 2024

Undergraduate Researcher

Cambridge, MA

- Built a dataset of 50k+ demolished buildings in the U.S., and an associated algorithm to match addresses in tax data sets, demolition data, and new construction building permits.
- Co-author to a paper in the publishing process: *Lifetimes of Demolished Buildings in U.S. and European Cities*.

KJ Construction & Remodeling

Jan. 2019 - Aug. 2023

Construction Worker

Kitty Hawk, NC

- Developed a wide range of trade skills including: carpentry, demolition, painting, insulation, flooring, repairs, power tool use, and heavy equipment operation.
- Trained and mentored my younger brother in the construction industry.

PROJECTS

Six-Axis Desk-Sized Robotic Arm (*Current*)

June 2025 - Present

- Designing and fabricating an original desk-sized 6-axis robot arm.
- 3D printed frame, servo motors, arduino nano controls, photoresistor-activated autonomy.

2.007 Design Competition

Feb. 2025 - May 2025

- Built an autonomous robot to compete in the 2.007 design competition.
- Arduino Nano Autonomy, CNC Mill & Lathe machining,
- Advanced to the top 8 competitors out of 150+; *Hot air Balloon Award* for an elegant and effective robot.

SKILLS

Programming

Python, R, C++

Machining

CNC Mill, Lathe, Power Tools

CAD

SolidWorks, AutoCad

LEADERSHIP & INVOLVEMENT

Men's Varsity Basketball: *Team Captain, 2024 Rookie of the Year, 2025 Academic All-Conference*

Sep. 2023 - Present

Sigma Chi Fraternity: *Risk Manager, House Manager, Work Week Manager, Summer House Manager, Annotator, Brotherhood Chair*

Sep. 2023 - Present

MIT Undergraduate Practice Opportunities Program: *Member*

Sep. 2024 - May 2025

Brass Rat Investments: *Education Program Member*

Sep. 2024 - Dec. 2024

MIT Office of the First Year: *Orientation Leader*

Apr. 2024 - Sep. 2024

MIT Energy & Climate Club Launchpad: *Business Analyst*

Feb. 2024 - May 2024