

Jacob DeFord

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EDUCATION:

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY

Bachelor of Science in Computer Engineering with a minor in math, Graduated May 2022.

Awards: Dean's List Fall 2020

Relevant Courses:

Reconfigurable Computing
Machine Intelligence

Integrated Software Development Environment
Programming Embedded Microcontrollers

MONROE COMMUNITY COLLEGE, Rochester, NY

Associates of Science in Engineering Science, Graduated May 2018

Awards: Dean's List Spring 2017, 2017 Scholars' Day Award

EXPERIENCE:

Mastodon Design, A CACI company

- **February-Present 2023.** Employed as a Software Engineer.
- **Job description:** Worked alongside hardware engineers to create automation tools to aid in testing and validating hardware systems. Developed a new test system using an Arduino to increase test compatibility with new systems and expand the available tools for the test engineer team.

Alion Science and Technology

- **January-August 2020 and May-August 2021.** Employed as a computer engineering co-op.
- **Job description:** Software development focus. Used Atlassian Bamboo to build an automated system for testing published code through Bitbucket. This system was used for verification of systems using scripts and tests. Lastly, built an automated system for editing code to reflect current build.

Hasbro

- **January-July 2019.** Employed as an electrical engineering co-op.
- **Job description:** Rapid prototyping for toy electronics and systems. Worked with a team of designers and thinkers to transform ideas into products. Provided with sketches and written ideas, my task was to create electronics systems to convert these ideas into working prototypes.

PROJECTS:

Engineering Design Project, Fall 2017

- Maintained a drone as part of a team that designed and created a drone for a competition. Designed an autonomous drop mechanism using light sensors and a microcontroller.

Epic Project at Hasbro, Spring 2019

- As a group of 5 co-op employees at Hasbro. Our team was tasked with creating a collectable product with sustainability as a focus point.

Senior Design, Spring-Fall 2021

- With a team comprised of other engineering students, our team was tasked with developing an app with a RIT hosted server. My role was to build the application for android.

SKILLS:

Programming Languages: Python, PyQt, C, VHDL, Java, MATLAB, scripting languages

Software: Linux and Windows Operating Systems, Microsoft Office, SOLIDWORKS

Hardware: Arduino, RF Test Equipment (Sig Gen, Network Analyzer, Signal Analyzer), Rapid Prototyping