

# RYAN MCGEE

## SOFTWARE / ROBOTICS ENGINEER

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Searching for a robotics co-op Summer->Winter 2022

## EDUCATION

### Rochester Institute of Technology

Bachelor of Science in Electrical Engineering w/ Robotics

Aug. 2018 - Current

## EMPLOYMENT

### CACI - Programming Intern - Dahlgren, VA

(18 Months)

2019 - Current

Wrote scripts to secure Red Hat systems, and to interpret and automatically modify Ada code

UI design with JavaFX, Bit manipulation and networking with C++, database management with Postgres, PCAP processing and replaying network data

## SKILLS

**PROGRAMMING:** Java, C/C++, Bash

**LINUX:** Arch, Red Hat, Debian

**CAD:** Autodesk Inventor, FreeCAD, Solidworks, Blender

**HARDWARE:** Soldering, 3D Printing, Robotics, Mechanical design

## PROJECTS

### 3D Printed Robots

Raspberry Pi powered, Bluetooth controlled, holonomic drive systems

Sept. 2017 - Current

### 3D Printed Robot Arms

Arduino Powered, stepper motor/servo driven, 4 axis control. Controlled via USB through a java program

May 2017 - Aug. 2018

### RC Scale Swerve Drive System

A swerve drive modular system, iterated over 5 different designs. Originally created as a hobby project, and evolved and prototyped for the RIT VexU team

Sept. 2018 - Current

## ACTIVITIES

### Computer Science House, Member

RIT Special Interest House (SIH) program, centered around learning computer science

Aug. 2018 - Current

### RIT VexU Robotics Team, Member

A robotics team that creates two robots for a game released each year, and competes against other universities

Aug. 2018 - Current

## VOLUNTEERING

### RIT High School Vex Competition, MC

February 2019 and 2020

### First Robotics Team 339, College Mentor

May 2018 - Current