

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 Robotics and Manufacturing Technology

Aug. 2018 - Current

EMPLOYMENT

CACI - Programming Intern - Dahlgren, VA

(18 Months)

2019 - 2021

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

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

SKILLS

PROGRAMMING: Java, C/C++, Bash, CompactLogix PLC

FRAMEWORKS: OpenCV, JavaFX, ESP-IDF

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