

RYAN MCGEE

SOFTWARE / ROBOTICS ENGINEER

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Searching for a robotics / software internship Summer 2023

EDUCATION

Rochester Institute of Technology

Bachelor of Science in Robotics and Manufacturing Engineering Technology

Aug. 2018 - May 2024

EMPLOYMENT

CACI - Programming Intern - Dahlgren, VA

2019 - 2021

(18 Months)

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

ITW Hartness - Controls Intern - Greenville, SC

May 2022 - Dec. 2022

Wrote ladder logic on Allen Bradley PLCs for Dynac accumulation systems with the integration department. Developed electrical drawings in AutoCAD for custom robotic palletizer systems, and gained experience with fieldwork at customer sites

SKILLS

PROGRAMMING: Java, C/C++, Bash, Git, Allen Bradley PLC

FRAMEWORKS: OpenCV, JavaFX, ESP-IDF

LINUX: Arch, Red Hat, Debian

CAD: Autodesk Inventor, Solidworks

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

PROJECTS

3D Printed Robots

Sept. 2017 - Current

<https://ryanmcgee.dev/projects>

Raspberry Pi / ESP32 powered, Bluetooth controlled, holonomic drive systems

G2MIDI Hackathon Project

Apr. 2022

<https://github.com/superrm11/G2MIDI>

A software program to interpret guitar notes in real time and convert them to any instrument as a MIDI device

VEX Robotics Core API

Apr. 2020 - Current

<https://github.com/RIT-VEX-U/Core>

A custom open source API for easily managing robotic subsystems and utilities

ACTIVITIES

Computer Science House, Member

Aug. 2018 - Current

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

RIT VEXU Robotics Team, Software Lead

Aug. 2018 - Current

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

VOLUNTEERING

RIT High School Vex Competition, Host and MC

February 2019, 2020 and 2022

First Robotics Team 339, College Mentor

May 2018 - 2021