ISAAC INGRAM

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OBJECTIVE

To find a part-time position in embedded software development or related fields

EDUCATION

BS Computer Science | Rochester Institute of Technology

📅 August 2022 - December 2026   📍 Rochester, New York

Coursework in Mechanics of Programming, Statistics, Discrete Mathematics, and Differential Equations

WORK EXPERIENCE

Software Engineering Co-Op | Collins Aerospace   📅 May 2023 - Present

- Write low-level libraries and drivers to support avionics application development
- Communicate with other avionics equipment through standards such as MIL-STD-1553
- Create scripts to automate documentation tasks, boosting team productivity

Embedded Systems | Avionics | Requirements Management

PROJECTS

SproutChaperone | ◯ IsaacIngram/SproutChaperone

- Display the current moisture level of plants on an adjacent LCD
- Report data to a remote server for long-term logging
- Display data through an intuitive DataDog dashboard

C++ | Arduino | DataDog

TruckFood | ◯ IsaacIngram/TruckFood

- Webscrape information on local food trucks from RIT's website
- Send that information to Slack through the Slack API

Python | Selenium

Rapid React Robot
◯ CommandoRobotics/FRC _Rapid _React _2022

- FIRST Robotics Competition robot awarded the **Innovation in Control Award**
- Use computer vision for localization and automated targeting using computed projectile mechanics
- Use complex control algorithms to ensure accurate path following and safe control of other mechanical systems

Java | Arduino | Computer Vision | PID | Feedforward

LANGUAGES

C | Java | Python

TECHNOLOGIES

VXWorks | LynxOS | Git
MIL-STD-1553 | Subversion
Jama | DOORS

ACTIVITIES

Computer Science House
🌐 csh.rit.edu

- 3D Administrator 📅 January 2023 - Present
  - Manage and repair 3D printers
  - Assist other members in designing, slicing, and manufacturing 3D printed parts

- Member 📅 August 2022 - Present
  - Living-learning community focused on sharing technical skills and knowledge

FIRST Robotics
🌐 firstinspires.org

- Team Captain 📅 September 2021 - March 2022
  - Schedule and run meetings
  - Ensure everything comes together in a timely manor

- Lead Programmer 📅 September 2020 - March 2022
  - Manage codebase to ensure working code is constantly available
  - Organize and complete programming tasks to meet overarching project timeline
  - Teach new students to code