

# George Main IV

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Rose-Hulman Institute of Technology CM 1791  
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## Objective

Seeking a full-time position in the field of Software Engineering for May of 2020

## Education

**Rose-Hulman Institute of Technology**, Terre Haute, IN May 2020  
*Senior, 3.91 GPA*

- Bachelor of Science Computer Engineering and Software Engineering Double Major

## Experience

**Capital One**, McLean, VA June 2019 - August 2019  
*Data Engineering Intern*

- Developed user orientated features for an Angular 4 based Chrome/Firefox/Edge Extension
- Created exception logging framework to track origin of errors within the extension
- Improved unit tests through the introduction of mocking components

**GE Appliances, a Haier Company**, Louisville, KY August 2018 - November 2018  
*Electrical Engineering Co-Op*

- Designed printed circuit boards with Cadence and populated/tested the prototypes
- Ran Accelerated Life Tests on individual components
- Completed Failure Mode and Effects Analysis (FMEA) on new designs

**Alarm.com**, Tysons, VA June 2018 - August 2018  
*Device Engineering Intern*

- Designed a RESTful API for the collection and storage of research and development data
- Developed an HTML/CSS/Javascript frontend and Python/Flask/PostgreSQL backend
- Wrote C and Python tools to upload sensor data from microcontrollers and a Raspberry Pi
- Deployed completed project to Amazon Web Services Elastic Beanstalk

## Projects

**Rose Grand Prix Engineering (Formula SAE)** August 2016 - May 2018  
*Electrical Team Member*

- Created data acquisition system to parse and insert CAN bus messages into Influx with C++
- Designed a sensor acquisition, CAN bus logging, and 915 MHz telemetry system
- Used Altium for designing PCBs and C for programming PIC microcontrollers

**W1GIV Auctions** June 2014 - Present  
*Creator/Developer*

- Created an auction management system in PHP and HTML with a MySQL database
- Allows for registration of attendees, entering of sold items, checkout, commissions, and receipts
- Currently used by two organizations to manage yearly auctions

## Interests

**Programming** - Java, Python, C, JavaScript, HTML, PHP, C++, Scheme

**Data Acquisition** - Grafana, PostgreSQL, InfluxDB, JSON, RESTful APIs

**Amateur Radio** - Extra Class License (W1GIV), Rose-Tech Radio Club (W9NAA) Operations Manager