Connor F. Henley

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OBJECTIVE

To get a job as a Residence Advisor, which will allow me to assist residents with their transition to college life and help residents succeed during their time at RIT.

LEADERSHIP EXPERIENCE

FIRST Robotics *October 2009 - Current*

Multiple Teams, in Colchester CT or Rochester NY

- *October 2009 - December 2011*
- Was a student on the local FIRST Lego League teams
- Led the team in 2011, and we won an award and went to States
- *September 2012 - April 2016*
- Was a student on FIRST Robotics Competition Team 1699
- Started as a programmer and electrician on the controls team
- Worked on pit crew (got the robot ready for the next match) in 2013
- Got chosen to be a member of Drive Team in 2014
- Started voulenteering at events in April 2014
- Ran successfully for controls lead in early 2015
- Led the design team for the grabber in 2015
- Ran successfully for co-captain of the team in late 2015
- Under my lead, the controls team won the Innovation in Controls Award in 2016
- *April 2016 - Current*
- Mentored multiple FIRST teams, taught programming to elementary and high school students

PROJECTS

Swerve Code for Team 1699

- Wrote code for a swerve drivetrain, which is a drivetrain where all wheels are independently steered and driven
- Incoroprated PID loops in order to make the steering motions smoother and to automatically adjust for drift.
- Though we never got the physical modules to test the code, the code can be found on GitHub.

ini-reader and ini-editor for Team 1699

- Rewrote code to read configuration files stored on the robot. The original project was written in LabView, but we moved to Java.
- Besides rewriting the project, I added to it, adding lots of aditional functions to the original project.
- Currently, the code has been used on the 2016 and 2017 robot and in the swerve code.
- The ini-editor was written to make the editing of configuration files on the robot easier, and the simulator was written to show how a configuration file is read into memory.
- The user interface was written in Python with TK and the simulator was written in Java with JavaFX, and all code can be found on the Team 1699 GitHub.

AWARDS & SKILLS

A+ Certified
Network Pro Certified
Chairman's Award from FIRST Team 1699
filler

Languages & Software:

C and C++
Turbo Pascal
Python
Java
nginx and WordPress
LaTeX
Microsoft Office
Windows and Linux

EDUCATION

Bachelor of Science, Computer Engineering, GPA: 3.28
Rochester Institute of Technology, Rochester NY, Expected June 2021

Computer Science I and II
Calculus I and II
Intro to Psychology
Intro to Philosophy
Intro to International Relations
Intro to Computer Engineering

Currently taking:

Mechanics of Programming
Multivariable Calculus
Digital Systems Design I
Physics I
Writing Seminar

High School Diploma, GPA: 3.6(add to me)
Bacon Academy, Colchester CT, Recived June 2016

AP Human Geography
AP Computer Science AB
AP Calculus AB
AP Physics 1

COMMUNITY SERVICE

Mentoring FIRST Robotics Teams

- Mentored FIRST Team 1699 in Colchester CT, teaching programming and electronics
- Mentored FIRST Lego League ¡fill¿ in Rochester NY, teaching programming and team values

Voulenteering at FIRST Events

- Started Voulenteering in 2014 at the Hartford District Event doing field reset.
- Voulenteered at the 2015 Waterbury District Event doing scoring.
- Voulenteered at the 2016 Connecticut State Championship doing field reset.
- Signed up to voulenteer at the 2017 Finger Lakes Regional doing field reset.

PERSONAL INTERESTS AND HOBBIES

Member of RIT FIRST Robotics Club