

Connor F. Henley

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OBJECTIVE To be selected 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.

EDUCATION *First-year Computer Engineering Student, GPA: 3.26* *August 2016 - Current*
Rochester Institute of Technology, Rochester NY

Computer Science I and II	Mechanics of Programming
Calculus I and II	Digital Systems Design I
Multivariable Calculus	University Physics I

LEADERSHIP EXPERIENCE *FIRST Robotics* *October 2009 - Current*
Multiple Teams, in Colchester CT and around Rochester NY

- *October 2009 - December 2011*: was a student on the local FIRST Lego League team
- *September 2012 - April 2016*: was a student on FIRST Robotics Competition Team 1699
- Worked on a team of high school students to create a robot in a limited time span
- Led the controls team starting in early 2015 and 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
- Continued volunteering at FIRST events

PROJECTS *Swerve Code for Team 1699*

- Wrote the majority of the code for a swerve drivetrain (and accompanying libraries), which is a complex drivetrain where all wheels can turn 360° and are independently steered and driven.

RIT FIRST's Imagine RIT Project

- Collaborated with other engineers and programmers to build small robots that play a game, similar to the game played by FIRST Robotics Competition teams, that are presented at Imagine RIT

WPILibPi

- Rewrote the hardware interaction layer of the library used in FIRST Robotics Competition to make it run on a Raspberry Pi
- Work on the project has been started, but a lot more work needs to be done before the project is ready for a pre-release

AWARDS & SKILLS A+ and Network Pro Certified Dean's List Nominee on FIRST Team 1699
Chairman's Award from FIRST Team 1699

Languages & Software:

C and C++
Python
Java

L^AT_EX
Microsoft Office
Windows and Linux

COMMUNITY SERVICE *Mentoring FIRST Robotics Teams*

- Mentored FIRST Team 1699 in Colchester CT, teaching programming and electronics and FIRST Lego League 6149 in Rochester NY, teaching programming and team values

Volunteering at FIRST Events

- Worked in a team in order to keep the event running and on-schedule
- Volunteered at multiple FIRST events doing field reset, scoring and field setup/takedown