

# HAKEEM S BUCHANAN

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## OBJECTIVE

To obtain a co-op experience in Computer Engineering and Software Engineering  
. Available for Fall (2019), Spring (2020) and Summer (2020).

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## EDUCATION

**Rochester Institute of Technology**, Rochester, NY

Bachelor of Science Computer Engineering Technology Expected May 2020

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## SKILLS

Hardware: Quartus II, ModelSim, MultiSim, FPGA, Arduino

Major-related: circuit design, oscilloscope, multi-meter, soldering

Software: C++(proficient), VHDL (proficient), Python(beginner), Java(beginner),C(advanced),  
Assembly(beginner), Linux(bash),GO(beginner), ,Scrum(Agile),ROS

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## COURSEWORK

Digital Systems Design , Hardware Description Language, Computational Problem Solving (I & II), Electronics (I &II), Microcontroller Systems, DC Circuits, AC Circuits, Embedded Systems Design, Machine Learning, Independent Study, Realtime and Embedded Systems.

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## PROJECTS

**TurtleBot3(Clutter-Bot)**-Using a Turtlebot3 with a raspberry pi controller, Arduino and ROS operating system, created a small robot with a group. Was Lead Engineer in project tasked with the Setup and Implementation.

**PNC Intern Capstone(Policy As Code)**- Worked on a project to help automate policies, specifically with repository pull requests. Wrote a webhook listener.

**Independent Study(ROS)**- Using ROS, Python and JavaScript created a program for the tutlebot3 that allows control through voice operation. Is also able to map a room using a LIDAR.

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## WORK EXPERIENCE

**Technology Intern**, PNC Bank, Pittsburgh, PA 05/2019 - 08/2019

Worked with a Agile team, writing unit tests to test the mapping and validation functionality. Also refactored some of the available code to meet specifications.

**Coding Instructor**, Fresh Air Fund , Fishkill, NY 05/2018 - 08/2018

Worked teaching preteens the basics of C++. Students ended creating functions that were added to a "Virtual Hotel".