

# Wallace Octavius Obey

☎ (+1) (980) 616-8287 | ✉ wobey@uncc.edu | 🏠 sites.google.com/view/wallace-obey/home | 📺 wobey000

## Education

### University of North Carolina at Charlotte

Charlotte, NC

BACHELOR OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

December 2020

- Relevant Classes: Internet of Mobile Devices (IoT), Computer Architecture, Operating Systems and Networking, Data and Computer Communication I, Embedded Systems, Data Structures, Digital Signal Processing, Intro to VHDL, Random Processes and Optimum Filtering

## Experience

### Software Engineer

Longmont, CO

SEAGATE TECHNOLOGY

March 2020 - Present

- Writing automation scripts and test for firmware
- Collaboration with engineers and customers for delivering new products and features to market

### Embedded Systems Engineer Intern

Charlotte, NC

ENVENTYS PARTNERS

May, 2019 - Aug. 2019

- Assisting with general software and firmware development for ARM based microcontrollers
- Testing circuit board and peripherals for device interfacing

### Technology Analyst Intern

Charlotte, NC

AMERICAN INTERNATIONAL GROUP (AIG)

June, 2020 - August 2020

- 2020 AIG Early Career Technology Summer Internship Program
- Technology Engineering: Configure, test, and deploy infrastructure and security systems

### Research Assistant

Charlotte, NC

UNC CHARLOTTE: EMBEDDED SYSTEMS AND ROBOTICS LAB

Feb. 2019 - May, 2019

- Worked as part of the Wireless Localization team
- Performing data collection, run experiments, and develop software/hardware for SLAM systems that use various sensors

## Projects

### Virtual Telepresence Robot

Charlotte, NC

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

Jan 2020 - May 2020

- Researched and selected the parts needed to build the robot
- Utilized python to program the motor driver power output and movement buttons on an Xbox controller

### Photovoltaic Inverter Design

Charlotte, NC

ECGR 3157: JUNIOR DESIGN

June, 2019 - Aug. 2019

- Designed build, and tested PV inverter with various specifications
- Led the PCB design, assembling components, and testing the board

### Energy Theft Analysis

Charlotte, NC

DUKE ENERGY

Feb. 2018 - Aug. 2018

- Spearheaded an analytic project to help Duke Energy track and identify power theft
- Developed a design based on project specifications

## Skills

<b>Language</b>	Arabic (proficient), English (proficient)
<b>Programming</b>	C, C++, MATLAB, Python, Labview, LaTeX
<b>Technologies</b>	NI Multisim, Autodesk Eagle, Cadence OrCAD, Visual Studios, Microsoft Office, Code Composer Studio, PSpice software

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## Societies, Awards, Volunteer Work

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Current **Officer / Member**, Communication And Outreach Person (IEEE)

Charlotte, NC

Current **Member**, National Society Of Black Engineers (NSBE)

Charlotte, NC

2018 **Award**, IEEE Power and Energy Society Scholarship (PES)

Charlotte, NC

2018 **Award**, UNC FIFA Champion

Charlotte, NC

## Presentation

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### 6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF (Capture the Flag) hacking competition and advanced techniques and strategy for CTF

### 6th Hacking Camp - S.Korea

S.Korea

PRESENTER FOR <METASPLOIT 101>

Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

## Publication(s)

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### William Halaburda, Guillermo Briceno, Wallace Obey, Nabila BouSaba, Fareena Saqib

IEEE Xplore

HONET 2020

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

### AhnLab

S.Korea

UNDERGRADUATE STUDENT REPORTER

Oct. 2012 - Jul. 2013

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

## Program Committees

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2013 **Organizer & Co-director**, 1st POSTECH Hackathon

S.Korea

2012 **Staff**, 7th Hacking Camp

S.Korea

2012 **Problem Writer**, 1st Hoseo University Teenager Hacking Competition

S.Korea

2012 **Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition

S.Korea