

# Christian Cipolletta

## Electrical, Computer, Software Engineering Intern

---

U.S. Citizen | Glassboro, New Jersey 08028  
(732) 991 9976 | [cipoll17@students.rowan.edu](mailto:cipoll17@students.rowan.edu)  
<https://www.linkedin.com/in/christian-cipolletta/>

---

ECE/CS student at Rowan University that has worked on several projects including an activist connection application with GUI using Java & HTML and an Interactive UI which allows the common person visualize what an AI model is looking at using Python, NumPy, and PyTorch.

### EXPERIENCE

---

**Johns Hopkins University Applied Physics Laboratory,**  
Electronic Systems Engineering Intern

**Laurel, MD**

*June 2023–August 2023*

- Wrote embedded C programs for a microcontroller to interface with its DMA, ADC, I2C, SPI, and UART channels which was version controlled using GForge.
  - Designed and laid out a PCB used to connect a DAQ unit to 16 test points, a USB to UART module, and a debugger.
  - Created 8 Confluence Wiki pages to categorize over 80 MDM and D-Sub connectors, and to document the code created for the microcontroller.
  - Pioneered Visual Studio Code environment with necessary extensions to be used for debugging and uploading code to microcontroller.
  - Analyzed microcontroller outputs using standalone digital logic analyzer for software testing purposes.
- 

**Oak Ridge Institute for Science and Education,**  
Visiting Scientist

**Egg Harbor Township, NJ**

*June 2022–August 2022*

- Designed and carried out 3 experiments that tested the feasibility of new technology for detecting and identifying chemical and explosive threats concealed in bottles for security at airports.
  - Wrote a Mathematica program to collect data from over 20 experimental tests.
  - Used Microsoft Excel to do statistical analysis and to create over 10 graphs.
  - Simulated the experiments with the use of COMSOL Multiphysics to validate results.
  - Created a technical paper and a 30-minute PowerPoint presentation given to a large group of peers.
- 

### EDUCATION

---

**Rowan University**

**Glassboro, NJ**

- Bachelor of Science in Electrical & Computer Engineering, Minor in Computer Science, Concentration in Honors Studies
- Awards: 3.98 GPA, 3x President's Scholar of Excellence

*September 2021-May 2025*

### SKILLS

---

- Technical Software: Microsoft Office Suite, Computer aided design (Onshape, Fusion), PCB and Schematic Design (Altium, Siemen Graphics), RF Simulation (COMSOL), Circuit Simulation (LTSpice, PSpice), Git
  - Software Programming Experience in C, Java, Python, MATLAB, HTML/CSS all using agile methodologies.
  - Test Instrumentation: Digital multimeter, mixed signal oscilloscope, configurable power supply, soldering through hole and surface mount devices, prototyping circuits using breadboards, ESD certified
- 

### ACTIVITIES

---

- Member of the Rowan Chapter of IEEE
- Member of Tau Beta Pi New Jersey Epsilon Chapter
- Treasurer & Goalie for the Rowan Club Men's Lacrosse Team
- Volunteer with Philabundance