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| **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/> | | |
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| 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. | | |
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| **EXPERIENCE** | | |
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| **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** | | |
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| **Rowan University**   * 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 | | **Glassboro, NJ**  *September 2021-May 2025* |
| **SKILLS** | | |
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| * 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** | | |
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