**CoE Resume Sample**

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**PROFESSIONAL EXPERIENCE**

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Bachelor of Science in Computer Engineering* *Expected May 2024*

**Cumulative GPA**: 3.67/4.00 | **Dean’s List:** Spring 2020 *–* Spring 2022

**Honors:** Eta Kappa Nu Electrical and Computer Engineering Honor Society

**Relevant Coursework**: Network Computer Security, Computer Network Architecture, Introduction to Python

**PROFESSIONAL EXPERIENCE**

**Languages:** C, MATLAB, Python, JavaScript, VHDL, HTML

**Software:** Xilinx ISE, Arena, Solid Edge, Fusion 360, Microsoft Excel, Microsoft Visio, Microsoft Project

**Additional:** SMT Soldering

**Certifications:** Advanced Algorithms, Introduction to Python, AWS Certified Developer, CompTIA Security+

**PROFESSIONAL EXPERIENCE**

**General Electric Gas Power,** *Test Engineering Intern* | New York, NY *May 2022 – August 2022*

* Managed data certification for a fintech app, identifying and resolving defects resulting in over 20,000 hours saved
* Targeted an 80% reduction in defects by the end of 2022 Q4 resulting in a 40% decrease in nonproductive time
* Engaged upstream IT and functional application ownership to implement process and system changes
* Constructed SQL queries to identify and evaluate magnitudes of 16 known data defect types
* Developed a Tableau dashboard to drive transparency through continual monitoring and reporting back to senior leadership

**PROJECT EXPERIENCE**

**Robot Maze Project,** *Team Lead**April 2023 – May 2023*

* Led a team of four to create a robot that solved a line maze using an AVR microcontroller programmed in C
* Validated functionality by completing the maze in less than three minutes from an arbitrary starting

**Robot Control Project,** *Team Member**March 2023 – April 2023*

* Created a system to control a robot’s position on a flat, level surface to arrive at a specified location through axes movement and rotational function
* Controlled the robot using an attached Papilio DUO that contained a general-purpose processor created using schematic capture in Xilinx ISE Project Navigator
* Designed an instruction set that had an opcode field that selected the movement, branch, and jump instructions, and parameters that further defined the specifics of the movement required

**4-Bit Three-Function Calculator,** *Team Member* *November 2022 – December 2022*

* Designed a circuit in Xilinx ISE Project Navigator that could add, subtract, and multiply any two 4-bit numbers with the results being displayed on a seven-segment display of a Papilio DUO
* Constructed detailed documentation for each piece of the design, which included the rationale for each component, the basic premise by which each component operates, and a description of how to use the component

**Image and Acoustic Signals Analysis, First Year Research Immersion,** *Researcher**September 2022 – December 2022*

* Researched Leap Motion, Microsoft Kinect, and Microsoft HoloLens applications to lessen occlusion when analyzing dynamic sign language gestures
* Collaborated in a team of four to document the findings for future development by other research teams

**Engineering Conceptual Design Project: UV Dosimeter,** *Team Leader**January 2021 – May 2021*

* Partnered with a team of nine to research and design a proof-of-concept low-cost UV dosimeter using Solid Edge
* Verified requirements formally upon completion of the project to ensure customer satisfaction

**LEADERSHIP & INVOLVEMENT EXPERIENCE**

**Watson Combat Robotics League (WCRL),** *Competitor**September 2022 – Present*

* Design a competitive combat robot in Fusion 360 that was compliant with the WCRL competition rules
* Program an Arduino Nano to take input from a Bluetooth iOS app and convert it into drive and weapon actions
* Compete in bi-weekly matches and semesterly tournaments, achieving first place in the Fall 2022 tournament

**Binghamton Residential Life,** *Resident Assistant**August 2021 – Present*

* Foster a safe and inclusive community among 24 diverse residents while ensuring Residential Life rules were followed
* Collaborate with 12 peers to execute creative programs and foster student development and connections

**Institute of Electrical and Electronics Engineers (IEEE),** *Internal Vice President**September 2019 – April 2020*

* Developed a security app that points out the differences between images at Hack AE as an IEEE representative
* Facilitate professional, technical, and social events at regular intervals for the 50+ member general body