Kevin Carman

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Education

Elizabethtown College, Elizabethtown, PA   **3.885 GPA** ▪ 2020
Bachelors of Science: **Computer Engineering** and **Computer Science**

Relevant Coursework

Engineering: Senior Project in Engineering ▪ Advanced Computer Engineering ▪ Computer Architecture ▪ Electronics
         Digital Design and Interfacing ▪ Circuit Analysis ▪ Signals and Systems ▪ Control Systems
Computing: Systems Programming ▪ Compiler Design ▪ Database Systems ▪ Data Structures ▪ Software Engineering
         Computer Networking ▪ Algorithms ▪ Operating Systems
Mathematics: Differential Equations ▪ Calculus ▪ Linear Algebra ▪ Mathematical Proofs

Honors & Activities: Founders Scholar ▪ Emergent Scholar ▪ Dean's List ▪ Faculty Student Award in Engineering &
         Physics ▪ Hager Scholar in Engineering and Physics ▪ Vice President of the Computer Science Club
         ACM ICPC Competition ▪ Dickinson Programming Competition

Technical Skills

Languages: C++ ▪ JavaScript ▪ Python ▪ C ▪ Java ▪ MySQL ▪ MATLAB ▪ Assembly ▪ Arduino ▪ Verilog
Software: Linux/Unix ▪ GitHub ▪ LaTeX ▪ Travis CI ▪ Logisim ▪ Autodesk Eagle ▪ AutoCAD ▪ Inventor ▪ MS Office
Hardware: PLC ▪ FPGA ▪ Arduino ▪ Raspberry Pi

Experience

Undergraduate Research ▪ Rutgers University   May 2019 - August 2019
- Algorithmically developed 'Graph Stories' by summarizing corpora generated from massive graphs.
- NSF funded individual research applied to graph sensemaking projects currently in development.
- User interface design and testing for ATLAS and Graph Wave projects.

Engineering TA ▪ Elizabethtown College   Jan 2018 - Present
- Educate and assist engineering students with design and fabrication
- Assess student circuits, designs, models, code, and other work in Computer Engineering and Architecture courses
- Computer Engineering/Science lab assistant and tutor

Freelance Contractor   May 2017 - Present
- Developed and manage a sizable client base for a variety of notable projects.
- Extensive interior and exterior design and renovation.
- Equipment maintenance and repair for a SERVPRO company.

Projects

Cosmic   Elizabethtown College
- Fully emulated, lightweight, and cross-platform 8-bit computer architecture designed in C++ with a RISC-like instruction set derived from Zilog Z80 and MOS 6502 microprocessors. Rich GUI developed with ImGUI for debug/testing. Assembler written in Python. Automated CI/CD and unit testing. Still in development.

Otis Neural Network   Elizabethtown College
- Researched and developed as part of an agile software engineering team a neural network capable of autonomously scaling, learning, and making assumptions from user defined data. Otis' development was fully automated with CI/CD and unit testing. Web panel and shell UI.

DiddyBot   Personal Project
- Designed and maintain a scripted Discord bot for my server. Written in JavaScript, running on node.js. MySQL database and several RESTful APIs implemented to support over 40 unique commands varying in complexity. Logarithmic user leveling system. Served as a fun project to learn a new language.