

# BENJAMIN RODGERS

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## EDUCATION

### RENSSELAER POLYTECHNIC INSTITUTE

Bachelor of Science in Computer Science, Minor in Economics

Troy, NY  
August 2022 - May 2026

### SPRINGSIDE CHESTNUT HILL ACADEMY

Diploma

Philadelphia, PA  
June 2022

## EXPERIENCE

### DELTA KAPPA EPSILON - PSI OMEGA CHAPTER

*President*

Troy, NY  
May 2024 - Present

- Oversaw the chapter's move to a new house
- Introduced efficiency improvements to the meetings of the Executive Board and General Body that I chair
- Developed, created, and secured funding for a local Delta Kappa Epsilon scholarship
- Introduced new bylaws, including a new position responsible for increasing brotherhood equity and belonging

### SIEMENS INDUSTRY, INC.

*Smart Building Services Intern*

Baltimore, MD  
May 2024 - July 2024

- Programmed, installed, serviced, and optimized control systems at 20+ locations
- Assisted in managing Siemens security databases
- Created maintenance plans, product failure reports, and financial sheets
- Reviewed contracts and monitored profit margins

### DELTA KAPPA EPSILON - PSI OMEGA CHAPTER

*Philanthropy Chair*

Troy, NY  
May 2023 - May 2024

- Improved average individual service hours by 57% (11.44 -> 18)
- Broke chapter records for total community service hours and community service hours per person
- Raised over \$1,500 during the school year, also a chapter record

### SIEMENS INDUSTRY, INC.

*Assembly Technician*

Harleysville, PA  
May, July-August 2022, July-August 2023

- Assembled and tested pneumatic control instruments and sub-assemblies
- Received training on the company's ISO 9001 quality management system and industrial process control theory

## PROJECTS

### Exploring Machine Learning Through Tic-Tac-Toe *Tensor Flow, Machine Learning, Neural Networks, GUI, Python*

*Official write-up posted to LinkedIn profile*

- A Tic-Tac-Toe AI that makes use of a neural network and deep learning with TensorFlow.
- Neural network represented by 9 neuron input, 15 neuron hidden layer, and 9 neuron output layer trained with reinforcement learning

### When-To-Go-Where: A National Park Ontology *OWL, XML, Protege*

- A semantically enabled application that leverages an OWL ontology to answer queries about U.S. National Parks
- Worked in a team-setting along with esteemed professor, Dr. Deborah McGuinness

### Delta Kappa Epsilon Website *JavaScript, HTML, CSS, Python*

- Implemented HTTP and HTTPS abilities
- Utilized Amazon AWS EC2 Instance to put server on the cloud
- Configured and made use of Docker to deploy and run the website

## PROGRAMMING SKILLS

Languages & Concepts: Python, C++, C, Verilog, JavaScript, Java, MIPS Assembly, Dafny, SQL, Neural Networks, Machine Learning, Artificial Intelligence, LaTeX, XML, Protege, OWL, SALSA, Haskell, Erlang