

Richard Owusu Akomea

Rochester, New York

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EDUCATION

University of Rochester

Rochester, New York

Major: Bachelor of Science in Electrical and Computer Engineering (GPA: 3.53)

Expected Graduation: May 2021

Minor: Computer Science

Honors/Awards: Dean's List, Shelby Davis Scholar

Relevant Coursework: Logic Design, Signals, Devices and Circuits, Microprocessors and Data Conversion, Advanced Front-end Web development and Design, Electricity and Magnetism, Mechanics, Number theory, Probability, Linear Algebra with Differential Equations, Multidimensional Calculus, Principles of Economics

EXPERIENCE

Physics Department at the University of Rochester

Rochester, New York

Teaching Assistant

Fall 2019 - Present

- Help students understand topics in electromagnetism which include: <Gauss's Law, Electromagnetic oscillations and waves>.
- Lead study sessions dedicated to helping students understand the deep meaning behind course topics
- Grade about 15 short answer questions from students per week

Simon School of Business

Rochester, New York

Information Technology Consultant

Fall 2018 - Present

- Transformed physical computing and networking systems by replacing outdated equipment and modernizing infrastructure
- Aid graduate students with troubleshooting software issues which include:<Freeing up RAM and installing software patches >
- Oversee and edit lecture recordings for master's courses and EMBA sessions

LEADERSHIP

Theta Chi Fraternity at the University of Rochester

Rochester, New York

Scholarship Chair

Spring 2019

- Responsible for informing brothers about grants and scholarships for those in need and coordinating brotherhood study hours

Engineers Without Borders at the University of Rochester

Rochester, New York

Engineering Committee Member

Spring 2018-Spring 2019

- Worked as part of a team to supply a water distribution system in an underprivileged community in the Dominican Republic.

Other Affiliations: Engineers Without Borders, National Society of Black Engineers, Theta-Chi Fraternity

PROJECTS

University of Rochester

Rochester, New York

Microprocessors & Data conversion student

Fall 2019

- Worked with a team on a project to create a wireless remote-controlled mechatronic vehicle
- Used UART communication to send messages between pi and the PIC32 microchip board which was programmed in C to modify the speed and direction of the gear motors

Johns Hopkins School of Medicine

Baltimore, Maryland

Medhacks 2019 Final round Participant

September 2019

- Participated in a hackathon at the Johns Hopkins University where I developed an algorithm that allowed users to find their drug equivalencies in a country of their choice
- Worked with a team to design and build the website to track their drug equivalencies.

University of Rochester

Rochester, New York

Object Oriented Programming Student

September 2018 – December 2018

- Developed code that used object-oriented programming and animated graphics to develop a ping pong Video game (Java)
- Wrote code that made use of Java graphics to develop 2D animated rocket launch and explosion

SKILLS & INTERESTS

Language: English (native), Spanish (Basic communication)

Computer Skills: Proficient with Microsoft Word, PowerPoint and Excel. GitHub/GitLab, Soldering, SEO, SQL, MySQL.

Programming Languages: Python, Java, JavaScript, HTML, CSS, JavaScript, Verilog, C / C++, MATLAB, Angular typescript.