Edward S. Kwak
214 Colonial Homes Dr. NW, 30309 | 678-727-6698 | edkwak44@gmail.com | U.S Citizen

Objective

Second-year electrical engineering major with previous leadership experience looking to specialize in signal processing and robotics. Currently seeking internship opportunities that will allow me to apply the skills that are taught in these fields. Open to relocate.

Education

Georgia Institute of Technology | Atlanta, Georgia *August 2022 – Present*
Bachelor of Science in Electrical Engineering Expected Graduation, May 2025

Skills

Programming: C++, Python, MATLAB
Languages: English (Native), Korean (Conversational)
Communication: Presentations (Solo presentations and symposium-style presentations)

Experience

Northrop Grumman | Baltimore, Maryland
Electrical Engineering Intern

- Working for the multifunction sensors and radars division.

Georgia State University | Atlanta, Georgia May 2022 – August 2022
Research Intern / Department of Mathematics and Statistics

- Participated in a Summer program designed to introduce students to academic research.
    - The goal was to explore a game theory problem and create a winning strategy through modeling and simulating.
- Organized a group presentation and presented at a research symposium. Won the award for the best team presentation.

AMS Pools | Johns Creek, Georgia
Head Lifeguard May 2018 – July 2018

- Managed our team's assigned neighborhood pool.
- Organized monthly shift schedules.
- Performed weekly maintenance (pH levels, draining, cleaning).

Relevant Coursework

Intro to Digital Signal Processing (In-Progress) : Discrete time signals and systems, sampling process, digital filters, discrete Fourier analysis, the Z-transform.

- *Relevant Lab Topics:* Image Processing, Music/Speech Synthesis, Biomedical Applications.

Digital System Design (In-Progress) : Boolean expressions/operations, implement encoders/decoders/multiplexers using basic gates, perform signed/unsigned operations, implement instruction sequences in a datapath using a RISC instruction set.

Projects

Handling Signal Data with MATLAB : Explored the behavior of signals represented as sinusoidal waves. Covered topics such as the phasor addition theorem and the effects of pitch and sampling frequency on the sinusoidal wave.