Joshua K. Lee

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Objective

Electrical Engineering major with strong communication skills and extensive experience in multi-faceted, diverse teams. Diligent and resourceful in collaborative working environments, data collection, and reports. Seeking an internship in electronic devices or robotics/autonomous systems starting in May of Summer 2023.

Education

Georgia Institute of Technology | Atlanta, GA   *May 2022 – Present*
Bachelor of Science in Electrical Engineering, GPA 4.00   Expected Graduation, May 2024

Purdue University | West Lafayette, ID   *August 2021 – May 2022*
Transfer with 60 Credit Hours, GPA 3.71

Skills

Programming: Python (Novice); Proficient in C, C++, MATLAB
Hardware: Arduino (Beginner)
Software: MATLAB, AutoCAD, Autodesk EagleCAD, Excel
Communication: Design proposals, presentations (large and small audiences), technical reports, research papers.
Languages: English (native), Korean (conversational), Spanish (beginner)

Experience

Atlanta Mission | Atlanta, Georgia   *August - November 2017*
Volunteer
- Volunteered to rotate roles between food preparation, serving, and cleaning in the main homeless shelter cafeteria under supervised teams; served around 150 people within 4 designated hours per week.

SL Architect | Suwanee, Georgia   *May - August 2022*
Intern
- Designed the electric plan of an architectural project using AutoCAD based on customer's requests and current architecture protocol.

Projects

Student Design Project | Engineering: Transforming Ideas to Innovation   *Fall 2021*
General Engineer/ Team Member
 Kimberly-Clark assigned a task for engineering teams to design a wastebin solution to reduce contamination of their compostable paper towels
- Lead the designing of multiple potential solutions in a team of four and assisted in testing, data collection, and final report + presentation
- As a team, presented the final solution and test data to professional engineers at Kimberly-Clark

BattleBots | Robojackets   *Fall 2022-Present*
Team member
Robots of different weight classes are designed for one-on-one combat in tournaments; they must be able to deal and withstand damage
- Learning to design manufacturable circuit schematics for the lower weight class 3 lbs. division robots. Work in teams with mechanical, computer, and software engineers.

Relevant Coursework

Digital Systems Design: CMOS switch schematics, switch and gate design, Boolean algebra, number systems, arithmetic, storage elements, Datapath, memory organization, Instruction set architecture, assembly language.
C Programming for Engineers: Programming in C language, computer memory, coding application in engineering problem-solving
Multivariable Calculus, Linear Algebra, Differential Equations: Mathematics of dynamic systems for three dimensions, matrices of linear systems, finding eigenvalues + eigenvectors, solving systems of linear and nonlinear differential equations