# Jung Ki Lee

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## Education

**University of Illinois Urbana - Champaign** **Aug. 2021 – May 2024**
*Computer Engineering, B.S.* *Champaign, IL*
GPA: 3.90/4.00

## Relevant Coursework

- ECE 484: Principles of Safe Autonomy
- ECE 448: Artificial Intelligence
- ECE 408: Applied Parallel Programming
- ECE 391: Computer Systems Engineering
- ECE 434: Real World Algorithms for IoT and Data Science

## Experience

**EV Concept** **Aug 2021 – May 2023**
*Electrical Team Member* *Urbana, IL*

- Design PCBs for power control and improve electric vehicle performance
- Solder electronic components on boards and ensure quality assurance

**CARE** **Sep 2022 – May 2024**
*CARE Tutor, PHYS 212 Review Team Co-Lead* *Urbana, IL*

- Provide academic support to undergraduate students in various engineering courses
- Host review sessions for PHYS 212 to facilitate group learning and foster academic growth

## Projects

**Simple Operating System** | *C* **May 2024**

- Developed a simple operating system that supports virtual memory, filesystem, multiple terminals and round-robin scheduling

**aFINity (Financial Dashboard - HackIllinois 2023)** | *Python, CSS, HTML, JavaScript* **Feb 2023**

- Created a minimalist website with useful widgets that show stock information, spending habits, and advanced graphics that combine all these interests into a 3D contour graph
- Developed a digital assistant using natural language processing and AI technology that provides personalized insights on stocks and market trends and real-time analysis of the user's financial portfolio
- Utilized scraping of 10-k forms and Twitter tweets to note down user and government sentiment towards a company and how it affects their stock price

**Racing Game with FPGA** | *SystemVerilog, Python, C++* **April 2023**

- Developed a simple racing game using MAX10 FPGA and implemented a state machine that adjusts the speed of the car.
- Utilized programming languages SystemVerilog, Python, and C++ to implement the game logic and graphics.

**ASL Glove - Pulse 2023** | *Arduino* **Feb 2023**

- Designed and developed a wearable glove that interprets American Sign Language (ASL) and translates it into English using Arduino microcontroller
- Implemented OpenCV computer vision library to accurately recognize and verify the user's hand gestures

## Technical Skills

**Languages**: C/C++, Python, SystemVerilog, LaTeX
**Technologies/Frameworks**: Pytorch, Tensorflow, CUDA, Linux, GitHub