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*   **April 2024 - May 2024**

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

F1Tenth Track | *Python, OpenCV, ROS*   **April 2024 - May 2024**

- Explored how autonomous vehicles change dynamics based on environment with a group of four
- Adapted a line following algorithm for an F1Tenth car

Rodent Deterrent and Classification System | *Python, OpenCV*   **Feb 2024 - May 2024**

- Implemented image processing and machine learning techniques to classify rodent species, enhancing the system's accuracy and effectiveness in deterring unwanted rodent activity.

GPU Convolution Kernel Optimizations | *C++, CUDA*   **Nov 2023**

- Developed and optimized parallel algorithms for convolution operations on NVIDIA GPUs, achieving reduced execution time and enhanced computational efficiency.

aFINity (Financial Dashboard - HackIllinois 2023) | *Python*   **Feb 2023**

- 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

Technical Skills

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