Kyser Lim

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EDUCATION

The University of Texas at Austin   Bachelor of Science, Electrical and Computer Engineering   May 2022
Bachelor of Arts, Plan II Honors
GPA: 3.93

EXPERIENCE

Lutron ALT EXperience Summer Program – *Intern,* Virtual   July 2020-Present
Virtual four-week professional development experience
• Collaborated with multiple individuals to deliver a successful solution to a home lighting installation plan
• Designed a virtual home to improve audience reception of the team's proposal
• Attended various workshops focused on professional communication, interviewing and networking techniques, presentation skills, and cross functional collaboration

Code Ninjas – *Curriculum Developer, Lead Tutor*; Sugar Land, Texas   June 2019-December 2019
Computer science tutoring service focused on languages such as HTML, CSS, JavaScript, and Java
• Educated students between the ages of 7 and 14 over the fundamentals of computer science
• Conceptualized various plans to improve customer satisfaction and expansion
• Enhance and develop Code Ninjas curriculum to ensure better student education
• Craft learning programs and modules for future tutors to develop their teaching skills

Sugar Creek Country Club – *Grounds Crew*   May 2018-August 2018
• Prepared golf course every morning by mowing or adjusting tees, bunkers, and sprinklers
• Attended to club members' needs and requests in a timely and professional manner

RESEARCH

Freshman Introduction to Research in Engineering   August 2018-December 2018
Semester-long research experience focused on water purification systems for disaster resiliency
• Awarded first place in FIRE End of Semester Competition
• Designed and coordinated project with undergraduate and graduate students for future testing
• Systemized a method that expedited the creation of dendrites, allowing for cost-effective mass testing

PROJECTS

Days of Blazers Miracles   October 2019-December 2019
• Raised over $2,900 to support Austin's local Helping Hand Home's Holiday Toy and Clothing Drive
• Organized a week-long event to increase engagement and raise awareness about foster children
• Created memories with foster children to encourage a happy holiday season

Space Invaders   November 2019-December 2019
• Designed an embedded system that replicated Space Invaders video game with a partner
• Integrated input and output interfacing techniques with personally coded programs
• Utilized various I/O devices to ensure a successful and efficient game
• Debugged and reconfigured various features to ensure simplicity for users

RELEVANT SKILLS

EE Concepts: Nodal Analysis, Mesh Analysis, Superposition of Circuits, Thevenin and Norton equivalent circuits, operational amplifier circuits, Capacitors and Inductors, First-Order Circuits, RLC Circuits, RC Circuits, Sinusoids and Phasors, Sinusoidal Analysis, Sinusoidal Power Calculations, Three-Phase Circuits, Transformer Circuits, Bode Plots, Filters, Two Port Networks, Transistor Amplifiers, Continuous and Discrete Time Convolution, Fourier Series, and Fourier Transform, sampling, Laplace and Z Transform

CE Concepts: Bits, Logical Operations, DeMorgan's Law, Storage Elements, Finite State Machines, Physical I/O, TRAP routines, Subroutines, Stack, Interrupt Processing, Dynamic Memory Allocation, Arrays, Structures, Pointers, Linked Lists, Stacks, Queues, Recursion, Object Oriented Programming, Binary Trees, Searching and Sorting, Hash Tables, Heaps, Universal Asynchronous Receiver Transmitter programming and interrupts, FIFO queues, LCD Interfacing

Programming Languages: C, C++, Java, HTML, CSS, JavaScript, Python, LC-3, Assembly Language

Software and Hardware: Microsoft Office Suite, Sublime Text, Mac OSX, Windows, Terminal, Keil uVision, GitHub, Xcode, CLion, Raspberry Pi, Arduino

Languages: English (fluent), Cantonese (native language), Spanish (elementary)

LEADERSHIP

The Texas Blazers   September 2019-Present
• Serve the University of Texas at Austin and city of Austin communities through active volunteerism
• Uphold the spirit and traditions of the University of Texas at Austin
• Promote leadership and growth while maintaining high academic success
• Tutored students of Austin's Eastside Memorial High School in various core subjects

Student Engineering Council   September 2019-Present
• Work with a team of 10-14 members to enact positive change to engineering community
• Facilitate events that focused on mental health and stress relieving
• Enrich academic experience of engineering students by working with Dean of Cockrell School of Engineering
• Developed and facilitated Student Engineering Council's social media presence

Camp Texas – *Counselor*   November 2018-Present
• Mentor freshman students over the course of the semester to ensure their success during college
• Receive training for interpersonal communication and problem-solving techniques
• Prepare incoming freshman students for a successful first year over three days

HONORS AND AWARDS

• College Scholar   March 2020-Present
• Texas Instruments Scholarship   October 2019-Present
• Joan F. Curry Endowed Presidential Scholarship   August 2019-Present
• Dean's Honor List   February 2019-Present
• Houston Livestock Show and Rodeo Scholar   April 2018-Present