ANAND SUNDERRAJAN

A motivated young professional with an amalgam of unique experiences, looking to further knowledge and experience while contributing to the society.

CONTACT

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NATIONALITY

American

SKILLS

Technical skills:

Assembly (LC3, x86)	Adobe Suite
TensorFlow	PyTorch
C/C++	Quartus
C for CUDA	Git
JavaScript	Jetbrains Suite
Node-Red	Keras
Python	KiCad
System Verilog	Linux
MS Office Suite	LaTeX
React	HTML/CSS
EAGLE	

Personal skills:

Communication	Creativity
Teamwork	Organisation
Leadership	Management
Writing	Public Speaking
Photography	Graphic Art

LANGUAGES

English - Fluent
Hindi - Fluent
Spanish - Intermediate

INTERESTS

Artificial Intelligence, Consumer Technology, Computer Hardware, Data Management, Digital System Design, Gaming, Information Assurance, Internet of Things, Machine Learning, Management, Photography, UI/UX Design, Web Design

AWARDS

Dean's List (College of Engineering) - 2020

T.E.A.M University Challenge (Portfolio Management) - Fall 2020

1st - University of Illinois Urbana-Champaign

11th - Nationwide

Best Engineered Design and Project (ECE445) - Fall 2020

Tespa Overwatch Collegiate Preseason (Illini Esports) - Fall 2020

16th out of 512 teams

EDUCATION

University of Illinois Urbana-Champaign *(September 2017 - May 2021)*
Bachelor of Science in Computer Engineering

International School of Havana, Cuba *(June 2015 - May 2017)*
International Baccalaureate Diploma

WORK EXPERIENCE

University of Illinois Urbana-Champaign *(Present)*
Teaching Assistant - ECE445 (Senior Design)
Lead and manage multiple project teams through the engineering design process - including design review, testing, demo, and professional documentation of each step. Create and present course lectures. Coordinate ~400 students with the course staff for technical and design assistance. Liaise with company representatives for sponsored projects.

University of Illinois Urbana-Champaign *(August 2020 - Present)*
Teaching Assistant - ECE385 (Digital System Design)
Guide students in laboratory experiments involving FPGA design (~250 students/semester). Conduct office hours for students to resolve their queries; test and debug their designs; and further their understanding of digital systems design.

Hendrick House *(May 2018-June 2019)*
Receptionist *(September 2018 - June 2019)*
Resident Advisor *(May 2018 - September 2018)*
Collaborated with a team of 6 Resident Advisors to establish a united leadership team to oversee ~1600 residents of varying age groups. Addressed resident issues and concerns in a professional and timely manner. Maintained a database of services used by residents and sold to visitors. Created accurate and detailed reports for each shift.

International School of Havana - Havana, Cuba *(October 2016 - May 2017)*
IT Intern
Created a program to maintain a database for ~600 students and assist in data management for various categories for each student. Assisted in the implementation of the IT infrastructure (~$45,000) for the new building built on Calle 21.

UNICEF - Havana, Cuba *(May 2016 -September 2016)*
Intern
Developed a program for maintaining an expense database. Allowed user to efficiently parse through 8 funding accounts locally on their machine and visualize 11 different expense categories.

RELATED COURSE-WORK

CS225: Introduction to Data Structures and Algorithms with C++ *Grade A*
Experience with data storage structures.

ECE385: Digital Systems Laboratory *Grade A*
Experience designing and building digital systems using transistor-transistor logic, System Verilog and field programmable gate arrays.

ECE498ICC: IoT and Cogitive Computing *Grade B+*
Experience with CNN creation using Keras and Low Level APIs. Experience using Node-RED, GPUs, Edge devices, Cloud devices.

ECE445: Senior Design *Grade A+*
Experience with project management and collaboration. Experience creating android apps and PCBs.

CS498DL: Deep Learning *Grade A+*
Experience with linear classifiers, multilayer neural networks, computer vision and reinforcement learning.

PROJECTS

Trading Bot
Python, PyTorch
Algorithmic trading bot that provides output for specific technical indicators (moving averages, price level movements, MACD, etc.) and sentiment analysis for tickers on high traffic subreddits. Achieved an alpha of 0.43 with a beta of 0.12

Event Attendance Tracker - Team 13 (Fall 2020) *View Project*
C, Java, EAGLE
Project for ECE 445, the capstone course for the ECE department at UIUC. A system that tracks event attendees at a booth through both hardware and software solutions. Utilizes a custom distance determining algorithm.

Pipelined LC3-b Microprocessor *View Code*
System Verilog, FPGA Development, Quartus Prime, LaTeX
A pipelined version of the LC3-B Microprocessor with features such as cache, branch prediction etc. Pipelined version built as a final project for ECE385 (Digital Systems Laboratory) with additional features added subsequently.

Object Detection System *View Code*
Python, TensorFlow, NumPy, Pandas
An object detection and classification system trained using Fashion-MNIST, built using two separate methods - Keras and Low-Level APIs.