JULIAN ESPADA

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EDUCATION

Massachusetts Institute of Technology *August 2018 - Present*
Bachelor of Science
Electrical Engineering and Computer Science
Minor in Mathematics

RELEVANT COURSEWORK

Software Construction (6.031)	**Linear Algebra (18.700)**
Computation Structures (6.004)	**Embedded Systems (6.08)**
Intro to Machine Learning (6.036)	**Intro to Digital Systems Lab (6.111)**
Intro to Communication Networks (6.02)	**Probability and Random Variables (18.600)**

TECHNICAL STRENGTHS

Modeling and Analysis	MATLAB, Matplotlib, Numpy, PyTorch, Pandas
Project Management Tools	Jira, Jenkins, Git, Gradle
Programming Languages	Python, JAVA, C, C++, Javascript, MySQL, RISC-V Asm
Hardware Description Languages	SystemVerilog, Bluespec

PROJECTS

IoT Fishing Game March 2019 - May 2019

In a team of 5, designed a fishing game for an Arduino that interacted with a remote server via WiFi, a GPS module, and an accelerometer to create a multiplayer competitive fishing experience.

FPGA Digital Audio Workstation November 2020 - December 2020

Worked with a partner to design an FPGA DAW which takes in USB keyboard HID-standard input, and can record and play back up to 4 simultaneous tracks of 8-bit mono audio at 44.1KHz.

WORK EXPERIENCE

kVA by UL June 2019 - August 2019
Functional Safety Engineer

· Performed penetration testing on the diagnostic network of a modern vehicle.
· Performed CAN Bus data analysis and reverse engineering.
· Researched into C and C++ usage specifications.

Discover Financial Services June 2021 - August 2021
Application Developer

· Leveraged MariaDB, Jenkins, PCF, JUnit, and Java Spring Boot to create a variety of virtual microservices.
· Used Scrum Agile Methodology in my work via Jira (daily scrum meeting, sprint backlog, team code reviews).

EXTRA-CURRICULAR

Spark 2020 Program Director for MIT ESP.

Secretary for MIT ESP.

Game Development and Design Club Treasurer.

Production Manager for MIT E33 Productions.

Avionics Sub-team Member for MIT Rocket Team.