Luis Abrogar

Email: luis.abrogar@gmail.com
Phone: (917) 940-1919
LinkedIn: linkedin.com/in/luis-abrogar
Website: luisabrogar.github.io/luis-abrogar

Education

Stony Brook University, Stony Brook NY
Bachelor of Engineering – Computer Engineering
December 2021

Courses Completed:

- Digital Systems	- Electrical Circuit Analysis	- Data Structures
- Logical Circuits	- Computer Architecture	- Algorithms
- Computer Vision	- Real-Time OS	- Mobile Cloud Computing
- Embedded Systems	- Machine Learning	- Network Security

Skills

Languages:	Web Dev:	OS:	IDEs/Editors:	Other:
- Java	- HTML	- Windows	- Visual Studio	- Git/GitHub
- Python	- CSS	- Linux	- Visual Studio Code	- Microsoft Office
- C/C++	- JavaScript	(Ubuntu)	- Android Studio	- Adobe Illustrator
- SQL	(jQuery)		- Eclipse	- GIMP
	- Browsersync	**HDL:**	- Spyder	
		- VERILOG	- Active-HDL	
		- VHDL	- Sublime Text	

Projects

Multi-Functional Calculator
- Developed an Android application with three main calculator functions: basic signed decimal arithmetic, restaurant tip and split amount, and a unit converter.

Text Mining of Survey Data using Python
- Designed software that efficiently extracts important data from surveys and converts it into a readable format that displays sentiment and the frequently raised topics

Cycling Companion App
- Designed an Android application that tracks a rider's current ride data such as current speed and elevation, traces the ride's path on Google Maps, and saves this data on a cloud database (Firebase) – allowing a rider to view the ride data for their previous rides.

Mersive Solstice Google Calendar Integration
- Designed a program that pulls a classroom's live scheduling information from the Google Calendar API and pushes it into the room's installed Mersive Solstice Pod – allowing students and faculty to see the room's availability and whom it is assigned to at any given time

IEEE Micromouse (Team Wolfiemouse)
- Maintained the existing robot's functionality by installing replacements for worn-out components and tuning the sensor parameters to improve its spatial recognition. Placed 3rd in the 2019 IEEE Region 1 Micromouse Competition

Work Experience

Stony Brook University DoIT   **April 2019 – January 2021**
Media Systems Engineering Assistant

- Performed weekly maintenance of campus-wide media systems and technology
- Reported and resolved support requests
- Collaborated with engineering teams to install new systems