Luis Abrogar

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Education

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

Courses Completed:

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

Skills

- Java
- C/C++
- Python
- HTML5
- CSS3
- JavaScript
- VHDL
- Active-HDL
- Linux (Ubuntu)
- Android Studio
- Git/GitHub
- Microsoft Office

Projects

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

8-Segment LED Digital Clock
- Programmed, simulated, and built a fully functional digital clock with basic timekeeping functions, alarm, USB charging port, and a LED binary seconds counter.

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