

ABEL THEODROS

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DESCRIPTION

To work for an organization which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective.

EDUCATION

University of California, Riverside
B.S. in Computer Science

intended grad: June 2021
GPA 3.1/4.0

Related Coursework

Data Structures and Algorithms, Discrete Structures, Machine Organization and Assembly Language, Linear Algebra, Multi-variable Calculus.

TECHNICAL SKILLS

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|---------------------|--|
| Software | Solidworks |
| Programming | C++, Python, Swift, HTML |
| Applications | XCode, Visual Studio Code, Adobe Premiere Pro, Final Cut Pro |

PROJECTS

Unmanned Aerial Vehicle (UAV) Project, IEEE, UC Riverside *January 2019 - Present*

- Computer Science Division, Pathfinding
 - Collaborating with three engineers to code C++ programs to track the current location of the UAV, targets possible drop points for the UGV, avoids any obstacles or risk of collision while in the air.
 - Designed an algorithm that will build the boundaries of the UAVs flight path from 50 given longitude and latitude points.
- Unmanned Ground Vehicle (UGV) Division, Design and Research
 - Collaborated with four engineers to design and construct an automated unmanned ground vehicle that is to be dropped mid-air from 200 feet in the air via an unmanned aerial vehicle, then drive to a designated location once it reaches the ground
 - Designed and constructed a suspension mechanism to assist the model in landing without sustaining major damage to itself or its payload

Pullup, Hackathon Project, UC Riverside

Fall 2019

- Used Swift to create iOS app that allows users to find and reserve available parking spots and garages in high-traffic areas, offer their own parking spaces for rent.

PROFESSIONAL AFFILIATIONS AND INVOLVEMENT

Member, Institute of Electrical and Electronics Engineers (**IEEE**), UC Riverside

Member, Association for Computing Machinery (**ACM**), UC Riverside