

# ABEL THEODROS

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## DESCRIPTION

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

## EDUCATION

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**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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<b>Software</b>	Solidworks
<b>Programming</b>	C++, Python, Swift
<b>Applications</b>	XCode, Visual Studio Code, Adobe Premiere Pro, Final Cut Pro

## PROJECTS

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**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

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

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