Andrew Kleinman

Computer Scientist

Contact

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Education

December 2021

California Polytechnic University, Pomona
- *MS Computer Science*
- *GPA: 3.97*

Technical Profile

Java
SQL
Python
JavaScript
C/++
HTML
Scala

Competencies

AWS
Embedded Software
UAV
LiDAR

Work History

April 2022 – Present

Cloud Support Engineer, Amazon Web Services
- Identified, analyzed and resolved infrastructure vulnerabilities and application deployment issues.
- Modified and debugged implementations of AWS services in the areas of Serverless Development, Messaging, and Mobile Technologies

May 2021 – December 2021

Full Stack Developer, Esdiac Global Systems
- Integrated Java, Scala, HTML, and Javascript code to create a real-time system to monitor active voice and video calls.
- Developed functional databases, applications, and servers to support websites on the back-end.

Projects

August 2021 - December 2021

Lead Software Engineer, CubeSat Integration and Programming
Funded by NASA Jet Propulsion Laboratory
- Performed Component integration for a variety of hardware elements
- Send and receive data from a centralized controller
- Regulated power distribution and position control based on current data

May 2020 - December 2021

Lead Embedded Software Engineer, UAV Fire Detection and Suppression
Sponsored by Lockheed Martin Corporation
- Produced a pair of drones that operate in tandem to navigate, detect and suppress fires, and map environment data
- Designed pathing and obstacle avoidance algorithms to allow automatic traversal through difficult terrain based on input from a VLP-16 LiDAR

Publications

1. Kleinman, A. (2022, January 28). Algorithms for automatic UAV pathing, detection, and traversal in an unknown environment. ScholarWorks. http://hdl.handle.net/20.500.12680/4q77fx85d

2. Moffatt, A., Turcios, N., Edwards, C., Karnik, A., Kim, D., Kleinman, A., Nguyen, V., Ramos, V., Ranario, E., Sato, T., Uryeu, D., and Bhandari, S., "Collaboration between Multiple UAVs for Fire Detection and Suppression," *Proceedings of International Conference on Unmanned Aircraft Systems*, Hybrid Event, Athens, Greece, 15–18 June 2021.