

(714) 400-5903
Cypress, California
andrewekleinman@gmail.com

Andrew Kleinman

Computer Scientist

GitHub: github.com/Andrewekleinman
LinkedIn: linkedin.com/in/andrew-kleinman

TECHNICAL EXPERIENCE

Full-Stack Developer / Global Communication

May 2021 — Dec 2021

Esdiac Global Systems

Los Angeles, CA

- Integrate Java, Scala, HTML, and Javascript code to create a real-time system to monitor active voice and video calls
- Design a website to display privileged information, which organizes information in a clear, dynamic format
- Maintain a database containing users and their communications for data analysis

Salesforce Programmer / Payment Protection Plans

Jan 2021 — May 2021

Liberty SBF

Los Angeles, CA

- Process each client's eligibility for Paycheck Protection Plan loans
- Work with Salesforce and Microsoft Excel to enforce input that is both consistent and valid
- Automate process of searching for matching profile information

Embedded Systems Lead / Drone-Based Automatic Fire Detection and Suppression

Aug 2020 — Dec 2021

Sponsored by Lockheed Martin

Pomona, CA

- Produce a pair of drones that operate in tandem to navigate, detect and suppress fires, and map data in an unknown environment
- Design multiple pathing and obstacle avoidance algorithms to allow autonomous traversal through difficult terrain based on input from a VLP-16 LiDAR
- Decreased computational time for path planning by over 60%

Software Engineer Lead / CubeSat Integration and Programming

May 2021 — Dec 2021

Funded By NASA Jet Propulsion Laboratory

Pomona, CA

- Perform component integration for a variety of hardware elements
- Create a system to automatically determine the best configurations based on current inputs from numerous sensors
- Programmed the On-board Computer to read data from external inputs

Software Developer Intern / Escrow Automation

May 2018 — Sep 2018

BottomLine Business Brokers

Tustin, CA

- Fully automate Escrow communication processes
- Tailor documents for each party using Salesforce programming and Microsoft Word scripts
- Utilize DocuSign and Conga Composer to perform email delivery and signature collection as a response to specified triggers

EDUCATION

Master of Science in Computer Science, *California State Polytechnic University, Pomona*

Dec 2021

GPA: 3.97

Bachelor of Science in Computer Science, *San Jose State University*

May 2020

Minors in Mathematics and Physics

PUBLICATIONS

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>

Moffatt A., Turcios, N., Karnik, A., Kleinman, A., Kim, D., Nguyen, V., Ramos, V., Ranario, E., Sato, T., Uryeu, D., Bhandari, S
"Collaboration between Multiple UAVs for Fire Detection and Suppression," 2021 International Conference on Unmanned Aircraft Systems (ICUAS), 2021, pp. 730-737, doi: 10.1109/ICUAS51884.2021.9476715

SKILLS

Languages	Java (fluent), SQL (fluent), Python (experienced), JavaScript (experienced), HTML (experienced), C++ (proficient), Scala (proficient)
Tools	Agile, Kafka, Spring Boot, Play Framework
Research	Embedded Systems Programming and Integration, Autonomous Path Planning