Thomas J. Stepp

630-842-1284 tom.j.stepp@gmail.com

Summer 2018 - Present

2015-2017

January 2012

PROFESSIONAL EXPERIENCE

Community Outreach Focal, Boeing (Long Beach Site)

Faculty Committee Chair, ECE Student Society

Eagle Scout, Boy Scouts of America

Coffessional Experience	December 2017 Decemb
Software Engineer, Boeing AvionX	December 2017 – Present
Architect of continuous integration suite for flight software team of 150 developers	
Develop website to provide accessible software metrics to enable management decisi	
 Streamlined code generation times from 10 to 1.5 hours via parallelization and cachin 	g server
 Scrum master for Model-Based Development Processes and Tools team 	
 Plan and lead team through software upgrades of Matlab, Atlassian products, and Git 	
Network Engineering Intern, Facebook	Summer 2016
 Created scripts for automation of network switch testing with Tcl and Ixia hardware A 	.PI
 Developed driver for IC chip with C++ to improve Wedge100 switch function and relia 	bility
 Assisted with switch setup and procedure standards to maximize the team's productive 	vity
Systems Engineering Intern, GE Aviation	Summer 2015
 Produced MATLAB software tools to automate test validation for LEAP and Passport 2 	20 engines
Data Analyst Consultant, McDonald's Corporate	Summer 2014
 Created a process to standardize the financial coding of 20,000 products sold on the w 	
ereated a process to standardize the initialistal country of 20,000 products sold on the W	200112
EDUCATION	
University of Southern California	Summer 2021
M.S. in Computer Science	
Relevant Courses: Web Technologies, Database Systems, Analysis of Algorithms	
Purdue University	May 2017
B.S. in Electrical Engineering	-, -
 Relevant Courses: Software Engineering Tools, Algorithms & Data Structures, OO Prog 	gramming
Universidad Carlos III de Madrid (Study Abroad)	Spring 2016
Completed engineering courses and projects in a culturally diverse environment	3priii 6 2010
DESIGN PROJECTS	
React News Website	Spring 2020
React front-end allows users to browse, share, and bookmark news articles from their	
Node.js + Express back-end provides news articles from the NY Times and The Guardia	
Flask News Website	Spring 2020
Plain JavaScript front-end provides user search, word-cloud, and slideshow of top articles.	
 Python + Flask back-end provides news articles from Fox News & CNN via Google New 	
UNIX Socket Programming	Spring 2019
 Five C/C++ programs which provide system for storing, querying, & calculating network 	rk delays
USB Audio Headphone Amplifier	Spring 2017
 Programmed Tiva Microcontroller in C to display volume meter and equalizer 	
 Interfaced with touchscreen to display GUI, and digital potentiometers via SPI 	
Computer Security Python Projects	Spring 2017
 Used Python to write encryption algorithms such as AES and RSA 	
Wrote firewall filters and buffer overflow attack programs	
Game Programming	Fall 2016
Created Super Mario-like game for Windows machines in Java	
Created the classic Zork text-based game in C++ to play on a terminal	
LEADERSHIP EXPERIENCE	