Samuel Verkruyse

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Education

CALIFORNIA POLYTECHNIC STATE UNIVERSITY | EXPECTED GRADUATION JUNE 2019| 3.05 CUMULATIVE GPA

· Major: Computer Engineering

· CS coursework: iOS App Development, Introduction to Computer Networks, Systems Programming, Design and Analysis of Algorithms, Discrete Structures, Computer Architecture, Computer Design and Assembly Language, Computer Science Introductory Sequence

· EE coursework: Digital Electronics and Integrated Circuits, Semiconductor Electronics, Continuous Time Signals and Systems, Circuit Analysis Introductory Sequence, Physics Introductory Sequence

Skills

•JAVA (PROFICIENT)	•SWIFT (FAMILIAR)	•VIM
•VHDL (PROFICIENT)	•VIM	•VIVADO
•ASSEMBLY (FAMILIAR)	•GIT	•SOLDERING
•C (PROFICIENT)	•ECLIPSE	•LTSPICE
•PYTHON (FAMILIAR)	•UNIX	•CIRCUIT ANALYSIS

Projects

SPORE DISTRIBUTION RESEARCH | JUNE 2018 - PRESENT

· Collaborating with Professor Kogan at Cal Poly to use C++ and Mathematica to model distribution of spores

· Enhancing distribution model by creating new functions to reduce run time, simplify parameters and improve results

IOS EVENT PLANNING APPLICATION | APRIL - JUNE 2018

· Envisioned and developed an iOS application using Swift that allows users to create and attend short term get togethers

· Utilized Firebase, Lyft, Apple and Google APIs to integrate location filtering, time filtering, ride sharing and group chat

GEOCACHE ASSISTANT | JUNE 2018

· Wrote a C Program and libraries to interface an MSP432 microcontroller with an LCD, keypad, and a GPS module

· Incorporated the program into a custom battery powered system that allows the user to find their coordinates, track their movement and find over 30 Geocaches in the San Luis Obispo area