

Ravi Jayanthi

ravikjay.github.io
ravikjay@gmail.com | 661.803.5945

EDUCATION

UCLA

COMPUTER SCIENCE AND
ELECTRICAL ENGINEERING
Los Angeles, CA
College of Engineering

SOLAR ENERGY INT.

Grad. July 2012 | Los Angeles, CA

LINKS

Github:// github.com/ravikjay
LinkedIn:// linkedin.com/in/ravikjay
Personal:// ravikjay.github.io

COURSEWORK

UNDERGRADUATE

Basic Computer Architecture
Network Fundamentals
Data Structures
Algorithms
Class Inheritance & Polymorphism
Recursion

OTHER

Fundamentals in Photo-voltaics
NiTiNol Materials Studies

SKILLS

PROGRAMMING

Strong:

C • C++ • \LaTeX

Familiar:

Swift • HTML/CSS • Ruby on Rails

TECHNOLOGIES

Linux • Command Line • ShareLatex
Arduino • Xcode • Github • Vim/Vi
Bootstrap • Wordpress

EXPERIENCE

UCLA IEEE | MICROMOUSE TEAM ENGINEER

May 2013 – August 2013 | Los Angeles, CA

- Created the autonomous maze-navigating robot using C with Arduino, CAD drafting + 3D printing, soldering, and microprocessor design.

PSOMAS FMG | DATA SCIENCE INTERN

May 2012 – Aug 2012 | Valencia, CA

- Organized and Interpreted data collected from solar panels.
- Managed installation of panel arrays for local high schools.

RESEARCH

NNIN | RESEARCH INTERN

Sept 2013 – May 2014 | Valencia, CA & Santa Barbara, CA

Conducted natural materials research on dye-sensitive solar cells and the medical/automotive properties of Nickel Titanium (Nitinol). Work presented to committee of UCSB and UCLA professors.

PROJECTS

BOULDER BLAST | C++

Implemented a puzzle/shooter arcade-style game based on a provided OpenGL framework. Game design, including inheritance flow between classes and implementation of all classes, was done from the ground up. Features fully functioning leveling, AI enemies, and in-game power-ups. See GitHub for the source code!

WEB STEGANOGRAPHER | C++

Implemented an LZW compression algorithm based on a provided web scraper that encodes and decodes secret messages in HTML source files. Wrote an open hash table to handle all requests to store, encode, and decode characters. See GitHub for the source code!

AWARDS

2014	National Merit Scholarship	Finalist & Recipient
2014	Schneider Electric Corporate Scholarship	Qualified & Recipient
2014	United States Marine Corps	Leadership & Excellence
2013	CIF Southern Section Foothill League	Boy's Tennis All-League