\_ Education

Olin College of Engineering

Candidate for BS in Electrical and Computer Engineering

GPA 3.64

Selected Courses

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| --- | --- |
| * Human Factors and Interface Design * Computational Modeling * Robotics III | * User Oriented Collaborative Design * Computer Architecture * Software Design |

\_ Employment

Microsoft Office: Publishing, Authoring, Reading, Collaborating

Intern in Program Management. Summer 2013

Designed a modern multi-platform citation and bibliography experience. Worked with my team, internal partners, and outside users to refine the user experience. Participated in three user studies. Delivered a detailed visual design along with annotations and a plan for moving forward.

Microsoft Windows: Developer Experience

Intern in Program Management. Summer 2012

Worked with a developer to create a Windows 8 App Quality Scorecard. Designed a re-usable, extensible scorecard structure to minimize code maintenance. Created a working prototype and demoed the prototype extensively across Windows to build support for the full feature.

SoftArtisans

Intern in Technical Services and Information Technology. Summer 2011

Developed business intelligence reports for upper management. Created complex SQL queries, mashing data from several databases. Delivered reports that remain in use today, along with other valuable support work including a network topology map.

\_ Projects

School

*Fit-Log*

A project aimed at designing and prototyping a mobile app for personal trainers. Worked in a team of four interviewing users, designing the app, and implementing a mostly functional prototype as a web app with a Python backend.

*Lego 3D Printer*

Worked on a team of four to design and fabricate a Lego building machine. Designs created on a Lego design program could be uploaded and “printed” by the machine. Worked on hardware interface code and electrical subsystem.

*Robotic Tugboat*

Programmed a three foot long tug boat to navigate a large indoor pool, avoid obstacles, and deliver a stranded barge to safety. Sensors included a black and white overhead camera, close-range infrared sensor, and infrared signal seeker. Written in LabView.

*Knots in Wikipedia*

Worked with a team mate to research graph properties in Wikipedia. Wrote a Wikipedia scraper and parser that could turn individual Wikipedia HTML files into an entire graph. Published in the book *Think Complexity* by Dr. Allen Downey.

Side Projects

*Planet*

A web app that helps Olin students create their plan of study. Currently being designed and implemented with another student with a focus on maintainability and extensibility. Python backend.

*Txt2HelpMe*

A no-UI web app that routes texts sent from stranded Olin students to the internal assistance mailing list. Designed to assist students stranded in the subway in finding a way home. Python backend, finished and in production.

*Windows8Tracks*

A Windows Store app designed to act as a front-end for the music website 8tracks.com. It is designed to be simple and optimized for listening to music in the background. Written using web technologies, currently in progress.

\_ Activities & Skills

Olin College

Teacher’s Assistant. September 2011 – January 2013.

Served as a teacher’s assistant for an introductory electrical engineering course. Spear-headed a curriculum re-write while holding lessons, administering lab hours and grading work. Incorporated feedback from students in order to iterate and improve on class design.

Tutoring

Robotics and programming. January 2012 – Present.

Tutoring an elementary school student on topics ranging from programming LEGO Mindstorm robots to writing basic Python scripts.

Programming Languages

Python, HTML/Javascript/CSS, MATLAB, SQL, LabView, Verilog, Arduino-C

\_ About Me

I was born in Israel and moved to Los Angeles, California in 1997. My interest in engineering began all the way then when I would spend hours building LEGOs, and developed further as I would disassemble my parent’s desktops and write small bash scripts to annoy my friends. I truly discovered programming in college, and since then I’ve bounced around between programming, user experience design, robotics, and electrical engineering. My diverse interests force me to learn quickly when I pick up a new project, which I tend to do often as my skills and interests diversify. I recognize that I do not have a formal background in CS, but I am driven to become a skilled and able programmer, and I believe my diverse experiences in the industry enable me to become an engineer that is conscious of technical challenges, schedules, and cultural contexts. While I’m not working on school projects or working, I love to get out there and enjoy nature through hikes. I also love organizing parties and get-togethers, and I’m known as the coordinator within my group of friends. I always stay up to date with the latest news in the industry, and I start new projects often to make sure my skills don’t fade.