Reshef Elisha

5049 Vista Montana,
Yorba Linda, CA, 92886
reshef.elisha@pitt.edu
(949) 466-4578

www.reshefelisha.com
linkedin.com/in/reshefelisha
github.com/reshefelisha

Languages:

- English (Fluent)
- French (Fluent)
- Hebrew (Fluent)

High school in US,
Elementary, middle school in Belgium

Skills:

- Electronic circuits
- Altera Quartus
- 3D CAD/Digital Design
- Autodesk Fusion
- SolidWorks
- MATLAB
- Python
- Java/Android
- C/C++
- HTML/CSS/JS
- Git
- Linux

Relevant Coursework:

- Electronics Lab
- Materials Structures
- Mechanical Design
- Computer Organization
- Digital Logic
- Structures and Properties of Materials
- Circuits
- Statics and Mechanics
- Engineering Analysis
- Differential Equations

EDUCATION:

University of Pittsburgh, Pittsburgh, PA (expected 2018)
Bachelor of Science in **Electrical Engineering** Major GPA: 3.46/4.00
Minors in **Mechanical Engineering**, **Art**

WORK EXPERIENCE:

Zego Robotics 3D Printing/Robotics intern (Summer 2015)
Collaborated with engineers at the new product introduction phase to develop and verify design changes

- Designed a multi-color 3D printer nozzle (Autodesk Fusion)
- Using a serial connection: Wrote the printer's interface to communicate with computer
- Designed UI for printer's software
- Designed a "manual work"-bot simulation in Unity3D using Javascript and C#

University of Pittsburgh Swanson School of Engineering
Information-technology intern (September 2014 – February 2015)

- Set up workstations, general application troubleshooting, conference rooms setup and maintenance

RESEARCH:

Material Sciences Research University of Pittsburgh (January 2015 – April 2015)

- Undergraduate researcher with Dr. Isaac Garcia studying the microstructure of 3D printed stainless steel and its application in nuclear reactor conditions

PROJECTS:

(Electrical Eng.) **Heart rate sensor**, Personal Project (2015)

- Implemented a heartbeat sensor circuit, then designed and implemented an interface to communicate the measured heartbeat with an Android app using an Electric Imp IOT module. (http://reshefelisha.com/heartbeat/)

(UI/UX, CS, Music.) **Melodyapp.co**, PennApps XII submission (2015)

- Uses computer vision and MIDI generation to take a picture drawn freehand by the user and create a melody out of the pictures. Different colors are different instruments and effects, vertical position is pitch, and horizontal position is the time-line. (http://devpost.com/software/melody)

(Electrical Eng.) **16-bit Processor design**, Term project: Comp.Org. (2015)

- Full MIPS-style architecture and ISA designed and implemented in python. (http://reshefelisha.com/processor/)

(Mechanical Eng.) **Multi-color 3D printer nozzle**, Personal project (2015)

- A nozzle for a reprap 3D printer able to mix 5-different types and colors of plastics during print-time.

(Mechanical Design, Music) **Clarinet mouthpiece**, Personal project (2014)

- A custom designed and 3D printed clarinet mouthpiece. Designed for a more open, happy tone, great for klezmer.

(Comp. Sci) **Android app development in Java**, Personal projects (2014)

- Notification-inator
- XKCD Now Widget

LEADERSHIP:

Events Chair at the University of Pittsburgh's IEEE chapter (2015-Present)

- Organize meetings and special activities, bring in professional speakers, and throw social and professional networking events.

Organizer and Director of Design & Marketing at SteelHacks (2015-Present)

- Pitt's biggest hackathon.
- Lead a team of students to design all of the marketing and graphic identity aspect of SteelHacks 2016.

ACTIVITIES AND SOCIETIES:

Active member in Hillel (2014-Present) and Computer Science Club (2014-Present)