# Reshef Elisha

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Languages:

- English (Fluent)
  High school in US
- French (Fluent)
  Elementary + middle school in Belgium
- Hebrew (Fluent)
  Born in Israel

Skills:

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

Relevant Coursework:

- Mechanical Design
- Computer Organization
- Digital Logic
- Circuits
- Statics and Mechanics
- Engineering Analysis
- Differential Equations

## EDUCATION:

**University of Pittsburgh,** Pittsburgh, PA (expected 2018) Major GPA: 3.46/4.00

Bachelor of Science in Electrical Engineering

Minors in Mechanical Engineering, Art

## WORK EXPERIENCE:

**Zego Robotics** 3D Printing/Robotics intern (Summer 2015)

> 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:

(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.

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

> Full MIPS-style architecture and ISA designed and implemented in python.

(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

**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)