ARIEL GOLDNER

100 Institute Rd., Box 2030; Worcester, MA, 01609 | (646)-707-1956 | agoldner@wpi.edu |

EDUCATION

WORCESTER POLYTECHNIC INSTITUTE, Worcester, MA — Expected Date of Graduation: May 2019

Bachelors of Science, Mechanical Engineering; Biomechanics concentration

GPA: 3.41, Major Specific: 3.62

PROJECTS

HUMAN AUGMENTATION LAB — Fall 2015- Present

- Founded WPI prosthetics group and formed partnership with Limbforge Inc. (formerly Enable Community Foundation).

- Collaborate with team members to design and 3D print prosthetic hands.

- Serve as chapter president and recruited a strong team of passionate and driven students.

CUSTOMIZABLE EXOSKELETON — Fall 2018- Present

- Initiated team formation and project execution for senior thesis.

- Proposed and executed the research of a software program, which can gather exacting measurement data from MRIs to translate into a customizable exoskeleton.

- Designing a customizable, low cost, modular exoskeleton compliant with FDA and ISO standards used to relieve pain in degenerative knee joints.

DIGITAL HEALTHCARE TOOL — Spring 2018

- Selected to work with the Danish Design Center to study the implications of changing demographics on healthcare.

- Produced an educational video game that presented the positive and negative aspects of possible future healthcare scenarios to stimulate action by healthcare professionals globally.

- Created the video game via group collaboration, established design techniques, and psychological studies to stimulate emotions.

WORK EXPERIENCE

AZZUR GROUP; Intern (Waltham, MA) — Summer 2018

- Generated and executed controlled temperature units, premises, and system protocols.

- Performed temperature mapping studies for CTUs utilizing Kaye Validator AVS and authored and reviewed validation documents relating to cGMP operations.

- Designed and 3D printed custom parts for internal and client projects.

LIMBFORGE Inc.; Researcher (Remote) — Summer 2017

- Researched pneumatic mechanisms for 3D printed prosthetic hands.

- Evaluated possible 3D printable vacuum chambers for use in versatile environments.

- Drafted program proposal for R&D partnerships with universities.

ORTHOPEDIC INSTITUTE GAPAIM Ltd.; Intern (Haifa, Israel) — Summer 2016

- Assisted in designing and building prosthetic limbs for various applications.

- Interacted with clients for fittings and evaluations.

- Developed business relationships for distribution opportunities.

SKILLS

SolidWorks, 3D printing, Arduino C++ (learning), Adobe Illustrator, Adobe InDesign.

ACTIVITIES

Member of the Alpha Xi Delta Women's fraternity, Crimson Key Tour Guide, CAMERA on Campus Fellow, Together, Restoring Their Names Fellow.