

— KEVIN T. RODRIGUEZ —

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

Candidate for B.S. in Mechanical Engineering Concentrating in Product Development

Jun 2019

RELEVANT COURSEWORK: Design & Manufacturing I, Measurement & Instrumentation, Dynamics & Controls II, Engineering Leadership & Lab, Engineering Innovation & Design, Electronics for Mechanical Systems, Sports Technology, Intro to Computer Science & Programming, Numerical Computation, Electronics Project Laboratory, Toy Product Design

EXPERIENCE

UMBR TECHNOLOGIES

Cambridge, MA

Sole Proprietor

Jun 2017–Present

- Conceptualized a novel 3D printing system for non-tempered chocolate food products
- Developed a business plan and performed cost analysis for initial proof of concept prototype raising \$500 in funding
- Consulted industry professionals and pivoting to fulfillment service business model while designing 2nd iteration prototype

NEON SHEEP LLC

Glendale, NY

Product Designer

Jan 2018

- Hired to redesign their existing vape mod kit product line to accept new hardware modularly
- Designed and prototyped 2 new vape mods that can be manufactured in house and sold at a net profit of \$80-\$100
- Negotiated contract for 4.7% royalty of the net profits of each design

TANGIBLE MEDIA LABORATORY

Cambridge, MA

Undergraduate Researcher

Aug–Sep 2016

- Fabricated pre-designed novel bio-gel 3D printer with another undergraduate researcher
- Improved upon provided designs by modifying third party hardware increasing build volume by 36%

BIOMECHATRONICS LABORATORY

Cambridge, MA

Undergraduate Researcher

Jun–Aug 2016

- Spearheaded the development of a passive running exoskeleton
- Utilized image processing software (ImageJ) and CAD software to design for interfacing with the human body
- Produced a device that can successfully transfer arm motion during running to assist in actuating the ankle

LEADERSHIP

GORDON ENGINEERING LEADERSHIP PROGRAM — GEL

Cambridge, MA

Gordon Engineering Leader

Sep 2017–Jun 2019

- Participating in selective-MIT leader development program focused on effectiveness as a leader of industry teams
- Actively practicing leadership, teamwork, and communication skills in an engineering context
- Highly immersive year-long curriculum; coached by specialized MIT educational staff

UNDERGRADUATE PRACTICE OPPORTUNITIES PROGRAM — UPOP

Cambridge, MA

Student

Sep 2016–Sep 2017

- Participated in a yearlong professional development program that prepares MIT sophomores for success in the workplace
- Completed an intensive one-week professional development workshop taught by esteemed MIT faculty and industry professionals, which explored topics such as effective communication, problem solving, and teamwork

NU DELTA FRATERNITY

Cambridge, MA

House Manager

Feb 2016–Feb 2017

- Managed budget of \$10,000 to ensure proper upkeep and improvement of our 4-story riverside mansion
- Secured funds for and oversaw \$24,000 overhaul of our fire safety apparatuses and protocols
- Automated the process by which weekly cleanups were delegated via Python scripting

MAKE MIT

Cambridge, MA

TEAM LEAD

Feb 2016 & Feb 2017

- Organized 2 teams of undergraduates to design and prototype electromechanical devices within 16 hours
- Successfully created assistive hand exoskeleton and smart glove with navigation assistance
- Awarded top 10 finalist position in the Make MIT inaugural 2 week long hackathon

SKILLS

FABRICATION: 3D Printing, Machining, Soldering, Laser Cutting, Water Jetting, Hand Tools, Mechanical Design, Circuit Design

SOFTWARE & PROGRAMMING: SolidWorks, MatLab, Adobe Suite, Fusion 360, Python, Arduino & C++, HTML & CSS