Kevin Tyler Rodriguez

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450 Memorial Drive, Cambridge MA

EDUCATION

Massachusetts Institute of Technology — **Cambridge, MA**
Candidate for B.S. in Mechanical Engineering : Concentration in Product Development — June 2019
Relevant Coursework: Engineering Innovation and Design, Engineering Leadership & Lab, Electronics for Mechanical Systems, Toy Product Design, Electronics Project Labratory, Sports Technology, Numerical Computation, Intro to Comp Sci & Programming, Mechanical Engineeirng Tools

EXPERIENCE

Umbr Technologies — **Glendale, NY**
Owner — June 2017 - Present
- Conceptualized a novel 3D printing system for untempered chocolate food products
- Developed a business plan and performed cost analysis for initial proof of concept prototype
- Pitched the product to family members and friends and received $800 dollars in seed funding

Tangible Media Labratory, Undergraduate Research Opportunities Program (MIT) — **Cambridge, MA**
Undergraduate Researcher — Aug - Sept 2016
- Collaborated with another student to construct a novel bio-gel 3D printer, designs provided
- Improved upon the provided designs to increase build volume by 36% with custom milled parts
- Introduced graduate students to the necessary softwares to continue the project

Biomechatronics Labratory, Undergraduate Research Opportunities Program (MIT) — **Cambridge, MA**
Undergraduate Researcher — June - Aug 2016
- Spearheaded passive running exoskeleton project to increase stamina in the average runner
- Designed/Fabricated prototypes with *SolidWorks* & additive and traditional manufacturing
- Increased productivity of the lab by repairing a retired 3D printer expediting prototyping

MIT Sports Technology: Engineering & Innovation — **Cambridge, MA**
Student/Financial Officer/Development Team — Sep - Dec 2016
- Investigated Cu-based NiTi substitutes in compression wear for company partner: MAS Holdings
- Oversaw budget of $1000 for research, development, prototyping for our objective
- Final presentation in front of industry leaders & created engineering briefs for MAS internal use

LEADERSHIP

Gordon Engineering Leadership Program — **Cambridge, MA**
Student — Sept 2017- June 2019
- Selected for exclusive MIT program that prepares students to assume leadership roles in industry
- Frequently interact with and hear keynote speeches from experienced industry leaders
- Mastering communication skills & personal leadership style to fit varying team dynamics

MacGregor Dormitory — **Cambridge, MA**
MakerSpace Chair — May 2016 - Sept 2017
- Authored a proposal to bring a new makerspace to 3 dormitories at MIT
- Negotiated w/ MIT administration & Environment, Health, and Safety services about regulation
- Drafted a constitution that will ultimately govern the makerspace upon completion

Make MIT — **Cambridge, MA**
Team Lead — Feb 2016 - Feb 2017
- Organized 2 teams of undergraduates to prototype electromechanical devices within 16 hours
- Successfully created assistive hand exoskeleton & smart glove with navigation assistance
- Placed in the top 10 for the Make MIT 2016 inaugural 2 week long hackathon

Nu Delta Fraternity — **Cambridge, MA**
House Manager — Feb 2016 - Feb 2017
- Managed a budget of $10,000 to insure proper upkeep of a 4 story riverside mansion
- Secured funds for and oversaw a $24,000 overhaul of our fire safety apparatuses and protocols
- Automated the process by which weekly cleanups were delegated via Python scripting

SKILLS

Software: MatLab, SolidWorks, Adobe Suite

Programming: Python, Arduino, HTML & CSS3