Zack Bright

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Education

Massachusetts Institute of Technology (MIT) Cambridge, MA
Candidate for Bachelor of Science in Mechanical Engineering, June 2015
Minor in Comparative Media Studies, GPA: 4.8/5.0
Related Courses: Thermal-Fluids Engineering I/II, Design and Manufacturing I, Toy Product Design, Dynamics and Control I/II, Intro to Robotics, EECS I/II, Computation Structures

Work and Research Experience

Apple Inc. Cupertino, CA
Mac Product Design Engineering Intern Jun. – Aug. 2013
- Worked with team on design of Notebook Computers
- Gained experience in various aspects of the design process including working on instrumentation, reliability testing and traveling to FATP manufacturing site in Shanghai
- Projects ranged from Design for Manufacturing to working with vendors on exploring new technology capabilities for critical functions, and collaborating with cross-functional teams to explore design solutions based off of prototypes and testing results

NextEra Energy Resources/Florida Power & Light Juno Beach, FL
Engineering Intern Jun. – Aug. 2012
- Mechanical Eng. in Renewables Team for the largest producer of wind energy in N. America
- Created Intellectual Property to be used by NEER to save as much as $11mil by properly aligning wind vanes on turbines and to be sold to other wind farms
- Reestablish infrastructure of workflow by creating search engine that leverages several in place tools to allow team to better coordinate management of work orders

Institute for Soldier Nanotechnologies Cambridge, MA
Undergraduate Researcher Sept. 2012– Present
- One of the main designers and engineers on the mosquito repellant project and design software to be used in conjunction with the repellant release devices
- Develop and design a new pharmaceutical delivery implantable and several mosquito repellant systems to be worn and used to cover perimeters
- Program and develop for simulations and scaling parameters of system

Wave Energy Projects Riviera Bch., FL Cambridge, MA
Researcher and Engineer Jun. 2009 – Jun 2011
- Lemelson-MIT InvenTeam developed a Wave Energy Conversion System, working with several engineering professionals, and budgeting out $6,260, designing , fully functional WECS.
- ISEF Finalist work on Wave Energy Conversion Systems, designed and tested a fully-functioning system as well as designing several novel Linear Power Take-Offs
- 1st place Florida Atlantic University Wave Energy Comp. against various HS and Collegiate teams

Leadership & Activities

Zeta Psi Fraternity: Social Chair, former Secretary
Mobile Autonomous Systems Robotics Competition: Vecna's Most Innovative Design Prize
L-MIT InvenTeams: Judge for InvenTeams applications and Team Mentor
Counselor for Discover Product Design: introduce freshman to MIT and Product Design
Medlink: First aid trained and carrier of OTCs, acting emissary between MIT Medical and students
Orientation Leader for MIT Orientation

Skills

Multimedia: SolidWorks, NX, Rhino, Adobe CS5
Manufacturing: Machine shop, Rapid Prototyping, Zeiss CMM and OMM trained
Language: English (Primary), Spanish(Fluent)
Programming: Python, Java, Visual Basic, SQL, Arduino, MATLAB, and Agile Trained

Hobbies

Tae Kwon Do Black Belt, Gracie Jiu-Jitsu Blue Belt, Photography, Saxophone, tinkering