

JOSHUA R. SURETTE

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EDUCATION

Boston University College of Engineering, Boston, MA

May 2018

Bachelor of Science in Computer Engineering; Minor in Biomedical Engineering
Cumulative GPA: 3.60/4.00; Major GPA: 3.71/4.00; Dean's List (All Semesters)

Universidad Autonoma de Madrid, Madrid, Spain

Spring 2016

Studied abroad at technical institute, and gained engineering education with a cultural immersion component

TECHNICAL SKILLS

Computer Programming: C/C++, Python, MATLAB, LaTeX, Git

Computer Software: Xcode, Github, Bitbucket, Anaconda, Sublime, UNIX/LINUX

Languages: Working Proficiency in Spanish

RELATED EXPERIENCE

Boston University BME Department

September 2016 — Present

Bioinformatics Research Intern

- Incorporate C++ and other programming languages in the area of structural bioinformatics
- Utilize large data sets and algorithmic analysis to provide information on protein-protein interaction for more effective drug design and for insight into protein function
- Work in an open-source, collaborative environment with other software-based researchers

Massachusetts General Hospital, Boston, MA

June 2016 — September 2016

Research Intern

- Utilized MATLAB and Python to algorithmically analyze metabolic flux changes of hepatocytes
- Created cell cultures, and used Liquid Chromatography/Mass Spectrometry to gather data

ENGINEERING PROJECTS

Metabolic Change Classification in Gastric Bypass

July 2016 — September 2016

- Utilized MATLAB and Python to classify hepatocyte metabolism change after gastric bypass
- Placed findings into context to pinpoint areas in the metabolism with statistically significant change
- Wrote up manuscript in LaTeX on findings and methods to prepare for publication submission

Third World Baby Incubator

August 2015 — December 2015

- Led team on a three month effort to build a working prototype for use in hospitals within Africa to assist in the welfare of premature babies
- Coded the heating system utilizing Arduino code

ADDITIONAL EXPERIENCE

Boston University Physics Department, Boston, MA

September 2015 — December 2015

Learning Assistant

- Co-led discussions to review material for Physics 2; Electricity and Magnetism
- Lead office hours to help individual students

LEADERSHIP AND AFFILIATIONS

Entrepreneurship Club; Executive Board Member

September 2014 — Present

BU Club Baseball; Executive Board Member

September 2014 — Present

First Gen Connect; Mentor

August 2015 — Present

MakeBU; Member

August 2016 — Present