Brian Valcarcel

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Education

University of Maryland   College Park, MD
B.S. Candidate in Computer Engineering   *Expected Graduation Date: May 2020*

- GPA: 3.93/4.00

- Enrolled in the Gemstone Honors Program

- Relevant Coursework: Objected Oriented Programming I-II, Introduction to Computer Systems, Discrete Structures, Elements of Discrete Signal Analysis, Digital Logic Design, Gemstone

- Spring 2018 Coursework: Algorithms, Organization of Programming Languages, Differential Equations, Linear Algebra

Experience & Projects

Research Assistant   College Park, MD
University of Maryland Department of Mechanical Engineering   *Fall 2017—*
- Created a model for mechanical bearing failure under load in Python using data from the FEMTO-ST Institute using machine learning algorithms.

Team Clerk   College Park, MD
Gemstone Honors Program: Team PROCESS   *Spring 2017—*
- Submitted a project sheet that was approved by University faculty and the Gemstone Honors Program for a graduate-level sports analytics research project that is currently in progress.

Programming Team Lead   College Park, MD
Introduction to Engineering Design Final Project   *Spring 2017*
- As part of a design team, oversaw the development of autonomous drive code for an over sand vehicle that made use of an Arduino microcontroller and RF communications technology.

- Created a movement algorithm for the over sand vehicle, and implemented the code on the device.

- Assisted in the development of the final design report, as well as finish all of the objectives and bonus objectives.

Finance Intern   College Park, MD
Gift to Uplift, Inc.   *Fall 2016*
- Created a system of organization in Microsoft Excel for the organization's finances and helped complete taxation forms to faciliate their transition to becoming a 501(c) nonprofit organization.

Skills

- Languages: Java, Python, C

- Other Skills/Programs: Arduino, MATLAB, Microsoft Office, LaTeX

- Operating Systems: Windows, GNU/Linux