

# 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, Electric Circuits

## 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 facilitate their transition to becoming a 501(c) nonprofit organization.

## Skills

- Languages: Java, Python, C
- Other Skills/Programs: Arduino, MATLAB, Microsoft Office, L<sup>A</sup>T<sub>E</sub>X
- Operating Systems: Windows, GNU/Linux