**Daniel Engbert**  
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| **Education** | **University of Maryland Baltimore County (UMBC):**   * 4.0 Cumulative GPA * Major: Computer Engineering, Minor: Math * Expected Graduation: May 2019   **University Involvement:**   * Baja SAE (intercollegiate engineering design competition) * Hack UMBC Club   **Scholarships:**   * UMBC President’s Distinguished Award * Society of American Military Engineers (SAME) scholarship recipient   **High School:**   * Attended the *Science and Math Academy* (competitive magnet program) * 3.9 weighted GPA | August 2015-  Present |
| August 2011-  June 2015 |
| **Technical Skills** | **Programming:**   * Proficient in Java, C++, VB, VBA, JavaScript ,HTML, CSS, familiar with C, Python, Matlab * Familiar with Linux, EMACS, Git, GitHub   **Robotics:**   * Worked on FRC robotics team 3941 for two years * Extensive Arduino and PIC microcontroller experience   **Software:**   * CAD: Proficient in Solidworks, Sketchup, and Eagle CAD * Fluent in Microsoft Office, GIMP/Photoshop |  |
| **Projects** | **Travel Route Optimizer (personal project)** Created a webpage using the Google Maps JavaScript API that allows users to enter destinations and then identifies the best order to travel to them in.  **App Development** Created a basic app in Android Studio that took inputted temperatures and converted them to and from Celsius and Fahrenheit, then stored them in an ArrayList, and then displayed the history of conversions in a ListView.  **Templated C++ Linked List (class project)** Designed a templated C++ linked list class which can be traversed in O(n) time.  **Java Markov Chain (personal project)** Created a Java program that analyzes provided text, stores patterns in objects of a custom class, and then generates random sentences based on the analysis.  **Capstone Project (High School):** Worked with a mentor to develop an Arduino system with sensors, a custom PCB, and an exercise bike that controlled cars in racing games on a computer.  **Microcontrollers Course (High School):** Sent and received data with serial communication between a computer running a VB program and a PIC microcontroller while outputting the data onto a LCD. | Jan 2016 |
| Nov 2015 |
| Dec 2015 |
| Dec 2015 |
| Aug 2014-  May 2015 |
| Jan 2015-  May 2015 |
| **Work Experience** | **Assistant Programming Instructor:**   * Employer: Black Rocket Productions, Location: Harford Community College * Responsibilities: Taught basic programming skills to elementary and middle schoolers as part of a summer computer skills camp. Topics included HTML, CSS, and GameMaker. Worked with another instructor to plan lessons while regularly leading the instruction of new material to the students.   **Scout Camp Counselor:**   * Location: Broad Creek Memorial Scout Reservation (Whiteford, MD) * Responsibilities: Taught Merit Badge classes to scouts; managed and a Scout Troop each week by serving as a liaison between them and the camp leaders. | Summer 2014 |
| Summers of 2011-2014 |