**Daniel Engbert**  
end1@umbc.edu • 410-776-1195 • Forest Hill, MD  
github.com/danielengbert

|  |  |  |
| --- | --- | --- |
| **Education** | **University of Maryland Baltimore County (UMBC):**   * 4.0 Cumulative GPA * Computer Science Major, Math Minor * Expected Graduation: Dec 2018   **University Involvement:**   * Hack UMBC Club * Baja SAE (intercollegiate engineering design competition)   **High School:**   * 3.9 weighted GPA at the *Science and Math Academy* (magnet program) | Aug 2015-  Present |
| 2011-  2015 |
| **Technical Skills** | **Programming:**   * Java, C++, JavaScript, HTML, CSS, C, Python, VB, VBA, Matlab * Familiar with Linux, EMACS, Git, GitHub   **Software:**   * CAD: Proficient in Solidworks, Sketchup, and Eagle CAD * Fluent in Microsoft Office, and GIMP/Photoshop   **Robotics:**   * Worked on FRC robotics Team 3941 for two years * Extensive Arduino and PIC microcontroller experience |  |
| **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.  **Templated C++ Linked List (class project)** Created a templated C++ linked list class that can be traversed in O(n) time.  **Java Markov Chain (personal project)** Created a Java program that analyzes provided text, stores patterns in a custom class, and then generates random sentences based on analysis of the provided text.  **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. | 2016 |
| 2015 |
| 2014-  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. Worked with another instructor to plan lessons while regularly leading the instruction.   **Scout Camp Counselor:**   * Location: Broad Creek Memorial Scout Reservation (Whiteford, MD) * Responsibilities: Taught Merit Badge classes to scouts and managed a Scout Troop each week by serving as a liaison between them and the camp leaders. | Summer 2014 |
| Summers of 2011-2014 |