BRANDON T. BERNIER

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SUMMARY

- Recent graduate with a Master's degree in Computer Engineering seeking a full-time position in the field where I can apply my background in electronics and analog/digital circuit design

EDUCATION

The George Washington University   **Washington, DC**
M.S. Computer Engineering, GPA: 3.97/4.00   *May 2014 – May 2016*
B.S. Computer Engineering, GPA: 3.93/4.00, summa cum laude   *August 2010 – May 2014*
Activities: *Tau Beta Pi, IEEE, GW Tech Collective, GW Student Association, University Honors Program*

TECHNICAL SKILLS

Programming Languages: C, Python, Verilog, Open MPI, HTML, CSS
Operating Systems: Mac OS X, Windows, Linux
Software: MATLAB, Cadence OrCAD, Multisim, Ultiboard, Virtuoso, Encounter, Synopsys, Silvaco, Tanner Tools, CoventorWare, Xilinx ISE, Altera SDK, Xcode, Arduino IDE, Microsoft Office

EXPERIENCE

The George Washington University   **Washington, DC**
Graduate Teaching Assistant, ECE Department   *May 2014 – May 2016*

- Mentored students in the theory, design, management, construction, debugging, and testing of their senior capstone design projects
- Taught students the fundamentals of electronics design, hardware/software debugging, and proper use of lab equipment
- Modernized outdated course/lab curriculum with faculty and rewrote lab manuals for various courses

The George Washington University   **Washington, DC**
Peer Tutor, ECE Department   *September 2013 – May 2014*

- Tutored students in Circuit Theory, Digital Signal Processing, Digital Logic Design, Digital Electronics, Microprocessors, Embedded Systems, Computer Organization, and Intro to Computer Networks

RELEVANT PROJECTS

Senior Design/Capstone Project   **Washington, DC**
Collision Avoidance System for the Visually Impaired   *August 2013 – May 2014*

- Led a three-person team in the design, implementation, and testing of a collision avoidance system for the visually impaired comprised of a wireless headset and cane attachment communicating via an Android app
- Met mechanical and functional requirements and specifications through the design of the PCB layout, embedded software, and housing of the wireless devices
- Designed CAD drawings for the 3D-printed project housings
- Developed portions of the Android app including the spoken audio alerts for the user and multi-threading to enable two simultaneous Bluetooth connections for data transmission

AFFILIATIONS & AWARDS

- The Benjamin Cruishanks Award in Computer Engineering, GW SEAS   *May 2014*
- The Abdelfattah Abdalla Prize for Scholarship & Service, GW ECE Dept.   *May 2014*
- Second Place, GW SEAS Pelton Senior Design Competition   *May 2014*
- Outstanding Academic Achievement Awardee (top 2% of class), GW   *April 2012, April 2014*