ALEC PULIANAS

909 Walker Avenue APT 2413C, Baltimore, MD 21228 / apul1@umbc.edu / (410) – 409 – 7392 / pulianas.com

OBJECTIVE:

To leverage my expertise in Computer Engineering, design, and leadership to create new consumer electronics products that enrich lives.

EDUCATION:

University of Maryland, Baltimore County, Baltimore, MD

- Bachelor of Science: Computer Engineering
- GPA: 3.375/4.0
- Expected May 2014

Center for Women and Information Technology (CWIT) Scholar

TECHNICAL SKILLS:

Programming Languages:	VHDL, Verilog, Assembly, C, Objective C, Java, Processing, Python, HTML, CSS, and MATLAB
Software:	Cadence Software, XILINX, ModelSim, Eclipse CVS, PSPICE, and XCode
Related Skills:	Machine Learning, FPGAs, Signal Processing, VLSI, and Embedded Systems

PROFESSIONAL EXPERIENCE:

SAIC

Computer Engineering Intern, Columbia, MD June 2012 – August 2012

Systems Engineering Intern, Columbia, MD May 2013 – August 2013

- Developed software for a higher performance, lower cost FPGA chip in VHDL to implement the I^2C bus standard, reducing cost by 75% and achieving a 20-fold performance improvement.
- Created a program to graph and dynamically update data displayed in a GUI environment.
- Wrote an intelligent parsing utility to efficiently synthesize data and output it into an Excel spreadsheet.
- Designed a functional and secure PL-5 CrossDomain Solution and modified a Python Django Dashboard.
- Integrated software solutions on custom hardware and tested the system. Learned network skills.

Apple Inc. September 2010 – December 2012

Specialist, Towson

Campus Representative, UMBC

- Showed the benefits of Apple products in higher education to hundreds of students, faculty, and staff.
- Held workshops and events for large audiences to educate them on Apple software and hardware.

UMBC RESEARCH & TEACHING EXPERIENCE:

Low Power FPGA Researcher June 2013 – May 2014

UMBC's Energy Efficient High Performance Computing Lab with Dr. Mohsenin

- Create robust, low power computing solutions using the latest FPGAs.

Teaching Fellow August 2012 – Decemeber 2013

CMSC 101Y & CMSC 304

- Facilitate lectures and hold office hours to assist students and help them learn the material.
- Design projects and activities for students to complete and later grade them using a consistent scale.

Multitouch Table Researcher November 2011 – May 2012

The Pad Research Lab with Dr. Kane

- Successfully created an accessible multi-touch table and presented research findings at a poster session to hundreds of attendees.

Biosensor Researcher August 2011 – November 2011

Bioelectronics Laboratory with Dr. Slaughter

- Developed of a power module for an implantable biosensor that generates power from body fluids.

LEADERSHIP:

Treasurer of WMBC (UMBC's Radio Station) and IEEE

- Created a proposal and gained funding for a complete studio renovation.
- Plan, record, and distribute a weekly Progressive Rock Podcast that is downloaded all over the world.

Vice President of Student Events for CWIT

- Plan the yearly new scholars retreat.
- Educate prospective students by serving on panels for UMBC, some for audiences of 400+.

Executive Committee of ODK Leadership Honors Society

- Recognize those who have attained a high standard of efficiency in collegiate activities and to inspire others to strive for conspicuous attainments along similar lines.

Retriever Weekly, UMBC newspaper

- Wrote a weekly column on The Tech of Tomorrow as a Staff Writer.