Paul Giessner

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Education:

University of Michigan	*Ann Arbor, MI*	Current GPA: 3.97 / 4.00

Bachelor of Science in Electrical Engineering — anticipated May 2017

Bachelor of Musical Arts in Pipe Organ Performance

Employment experience:

Whirlpool Corporation - WERLD Intern　　*Benton Harbor, MI*　　**Summer 2016**

- Tested new griddle rotary switch for specified behavior and communicated findings to supplier
- Wrote global algorithm specifications for ovens, coordinating with stakeholders across the organization
- Designed and assembled prototype for advanced development cooktop, running tests to understand performance

Raytheon Missile Systems　　*Tucson, AZ*　　**Summer 2015 - Spring 2016**

- Developed scripts (Python/Matlab) and debugged existing scripts to execute critical simulations
- Executed simulations in grid-based Linux environment, initiating thousands of runs per week
- Produced data sets and presentations to be used in briefs to military users of Raytheon technology

Cook Nuclear Plant (American Electric Power)　　*Bridgman, MI*　　**Summer 2014**

- Organized and analyzed drawings and documentation of security systems in preparation for walkdowns
- Optimized laptop and kiosk anti-malware maintenance procedures, saving up to two man-hours per week
- Coordinated across departments to set up meetings and resolve discrepancies on active projects

Projects:

Insulin Pump for Children　　**Winter 2015**

- Designed, prototyped, and tested an insulin pump as a member of a multidisciplinary engineering team
- Engaged with sponsor, faculty mentors, and children with diabetes to ascertain appropriate customer requirements and engineering specifications of product
- Worked on bluetooth communications and software, coordinating with other subgroups to ensure integrability

Instrument Box DSP　　**Fall 2014**

- Applied digital signal processing techniques in Matlab to create a GUI with music synthesizing features
- Program allowed real-time selection of pitch, instrument, and option to morph with another sound

Leadership experience:

Resident Advisor (Living Arts Community)　　*Ann Arbor, MI*　　**Jan. 2014 - May 2015**

- Promoted and consulted for multidisciplinary and creative activities intended for students from all academic disciplines; coordinated building-wide activities with student and professional staff
- Directed workshops, projects, and events designed to strengthen community; served as an advisor to eighty students while overseeing nearly 1,300 students in the building as a whole

Operations Supervisor at Krasl Art Fair　　*Saint Joseph, MI*　　**Summers of 2011 - 2014, 2016**

- Assisted art fair director in high priority tasks and created schedule for efficient vehicle management
- Oversaw the art fair's rise to the #12 art fair nationally; attracts more than 70,000 visitors each year
- Supervised in operations and expedited takedown resulting in a two hour reduction from previous year

Skills:

- Experience in Matlab, JMP, AutoCAD, Verilog, VHDL, Eagle, SQL, Visual Basic, C, C++, and Python
- Android, PC, and Linux hardware and software development knowledge