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KENDALL L. LOWREY

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OBJECTIVE	To apply my knowledge and creativity to solve interesting engineering problems.

EDUCATION

CARNEGIE MELLON UNIVERSITY *Pittsburgh, PA*
- Bachelor of Science in Electrical and Computer Engineering — May 2010
- Additional Major in Biomedical Engineering — May 2010
- Minor in Computer Science — May 2010

WORK EXPERIENCE

DEEPLOCAL, INC. HARDWARE ENGINEER *Pittsburgh, PA* — Summer 2010
- Worked with designers to engineer advertiser's campaigns at this innovation studio.

SPACEX: AVIONICS INTERN *Hawthorne, CA* — Summer 2009
- Real-time flight computer operating system testing and improvement, with development to minimize task launch latencies for flight software.
- Development of network testing software suite to measure performance and stress tests a distributed embedded network.

CISCO SYSTEMS: SOFTWARE INTERN *San Jose, CA* — Summer 2008
- Worked within Cisco's NSSTG group and a remote team based in Canada.
- Developed websites and web-based widgets to display crucial information to Cisco managers in efficient and innovative ways.

PROJECTS

SIGN LANGUAGE VOCALIZATION DEVICE *Biomedical Design* — Spring 2010
- Lead technical design and implementation of wrist-worn embedded device to convert gestured American Sign Language and the ASL alphabet to spoken words.

AUTONOMOUS HELICOPTER CONTROL SYSTEM *Embedded Design* — Spring 2009
- Lead a 4-person team with the goal of utilizing a 6DOF IMU and a dsPIC30F microcontroller to create a stability control system for a small collective pitch helicopter.

Dual-Core Multi-Threaded Processor Design *Computer Architecture* — Spring 2009
- In a two person group, designed and implemented a 5-stage pipelined processor with multi-threading on a dual core configuration, with caching and memory access for MIPS code.

REAL-TIME KERNEL ON ARM CPU *Embedded Real Time Systems* — Fall 2008
- Programmed a kernel in C and Arm ASM for an ARM7 processor to allow for rate-monotonic scheduling of periodic tasks.
- Implemented mutexes and software/hardware interrupts for handling tasks and user programs operating in an environment with resource contention.

SKILLS

Programming Languages:	C/C++, Arm ASM, x86 ASM, Java, Matlab, Verilog
Languages:	English, Chinese, 4 yrs High School Japanese Study
Operating Systems:	Windows, MacOSX, Linux/Unix Environments
Software:	Microsoft Office, Eclipse, OpenCV, Matlab, Subversion
U.S. Citizen	