Jeremy Sommerfeld

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Education

Michigan Technological University - Houghton, MI   *Fall 2013 - Present*
    B.S. Computer Engineering   *Anticipated Graduation: Spring 2017*
    B.S. Computer Science   *Dean's List Spring 2015*

Work Experience

Design Layout Intern - *Northrop Grumman Corporation*   *Summer 2016*
- Planned PCB component layout and routing for production Circuit Card Assemblies
- Collaborated with Mechanical and Electrical Engineers on critical design decisions
- Optimized legacy designs for more robust working performance
- Worked on high frequency digital and RF signal integrity constraints
- Utilized Cadence Allegro tools for schematic capture, part creation, and board design

Summer IT Technician - *Marquardt School District 15*   *Summers 2014, 2015*

Title Assistant - *Baird & Warner Title*   *Summer 2015*

Senior Lifeguard - *Palatine Park District*   *Summers 2010 - 2014*

Project Experience

Oculus-ASR Microsatellite - *MTU Aerospace Enterprise*
- Worked on Electrical Ground Support Equipment (EGSE) pre-flight testing system
- Designed EAGLE electrical CAD schematics for system design layout
- Fabricated electrical test protection circuit boards for flight hardware safety
- Constructed new testing and Gold level flight wiring harnesses

Auris Cubesat - *MTU Aerospace Enterprise*
- Collaborated with vendors on COTS solutions to power system requirements
- Designed custom Payload Interface Module for satellite integration and testing

Audio Spectrum Analyzer - *Winner of MTU IEEE MasterpiECE Mania 2016*
- Utilized TI LaunchPad dev-board to perform FFT on incoming audio signal
- Integrated LaunchPad PWM outputs for custom fan controller circuitry

Android Application Development - *Team Software Project*
- Connected Open Movie Database API to insert movie metadata into SQLite DB
- Utilized Agile programming methodology with Github version control

Technical Skills

- Cadence Allegro & EAGLE PCB
- System Integration & Testing
- Embedded programming
- C, C++, Java, Python, MATLAB

Awards and Honors

- Whirlpool Innovation Award
- National Excellence Scholar

Interests

- Computer Architecture
- Systems Engineering