

Timothy Adam Sonnenberg

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EDUCATION

North Carolina State University, Raleigh, NC
B.S. in Electrical Engineering, May 2018,
3.77 GPA

WORK EXPERIENCE

FREEDM Systems Center Undergraduate Research Scholar, 2016-2017 School year

- Received Funding from **Power America**
- Working on **power electronics** platform for wireless transfer of energy
- Used **Oscilloscope** and **Power Supply** to test **SiC MOSFET**
- Worked with **Altium** to modify existing PCBs to fit scope of project
- **Debugging problems** with certain wires and PCB boards
- Coded **embedded system TI Delfino F28377s MCU** to fit scope of project

FREEDM Systems Center REU Summer 2016, Centennial Campus NCSU

- Designed and created a modular fan controller to cool resistor banks
- Used **Eagle CAD** to **design PCB** and **hand soldered components**
- Wrote an **IEEE formatted literature review**
- Created and **presented** poster at an undergraduate research symposium

Project Management Lite Internship, Office of Information Technology NCSU

- It security project: November 2015-May 2016
 - Helped to create and implement a new **IT Governance Risk and Compliance** system via the Servicenow platform for all of NC State
- Working in a team environment to market and promote IT at NC State University
- Scheduled meetings, met deadlines and presented relevant information

SKILLS AND STRENGTHS

- Personal: Work well with others, creative, natural leader, intuitive, strong communicator
 - Bilingual: **fluent in French**
- Programming: proficient in Matlab and C programming
- Computer: Trained in using Google apps at NCSU's Office of Information Technology

ACHIEVEMENT AND INTERESTS

- Wolfpack Motorcycle Association NCSU – Member
- Malagasy Orphanage Volunteer trip – Summer 2012
- Surface Mount Technology Association - Member