BENJAMIN GERBER

bpgerbe@gmail.com

SUMMARY

Determined worker with internship experience at successful companies who strives to learn as much as possible. Desire an internship at a medical device company to apply knowledge of electronics in the medical field.

EDUCATION

North Dakota State University, Fargo, ND
Bachelor of Science Electrical Engineering   *Expected Dec. 2018*
GPA: 3.44, Deans List (2 semesters)
Relevant Coursework:

Signals & Systems	Applied Electromagnetics	Embedded Systems	Cardiovascular Engineering I
Electronics I/II	Senior Design I, II	Digital Design	Undergraduate Research - Biomedical

TECHNICAL SKILLS

Hardware: RF Design, Digital & Analog Circuit Design, PCB Design, Filter Design
Software: Altium Designer, Matlab, DesignSpark, Kicad, Arduino, Excel, Linux, Solidworks
Programming: C, C++, Powershell, Bash, Basic Assembly Language, TCL, Python
Electrical: Soldering, Circuit Design/Analysis, Signal Analysis, Sensors, EOG, ECG, EMG

ENGINEERING PROJECTS

Senior Design: REM Sleep Cycle Monitor   *2017-present*
- Designing circuit to capture REM cycles through EOG signals and relaying them over bluetooth
- Inventing a sensor headband with mounting for a 3D printed enclosure with PCB design
- Creating an android app to analyze sleep patterns and developing algorithms for future features

Microfluidic Cell Printing Research   *2017-present*
- Set self learning goals to analyze
- Learned how to model in CAD and efficiently 3D print prototypes using minimals materials
- Gained proficiency in organic lab protocols to successfully grow osteoblast cultures

INTERNSHIPS

Graco Inc, Anoka, Minnesota
Electrical Engineer Intern   *Summer 2017*
- Designed and prototyped a guided wave radar EM medium sensor leading to possible future patent
- Performed hardware test engineering on upcoming project to solve performance issues
- Proved troubleshooting skills in finding and solving bugs with sonar and RF sensors, and small power leaks

HGST, A Western Digital Company, Rochester, Minnesota
System Integration Technology Lab Intern   *Summer & Fall 2016*
- Applied knowledge of scripting to automate debugging processes saving over one thousand man-hours a year
- Exercised troubleshooting skill to repair systems, avoiding cost of repairs and increasing efficiency in team
- Led small team in testing of NVMe drives and educated team on procedures and tools of operation
- Educated myself about new topics in order to teach others and increase team knowledge

ACTIVITIES

Air Force Reserve Officer Training Corps, Fargo, ND   *2014-2015*
Arnold Air Society Member, Fargo, ND   *2014-2015*

REFERENCES AVAILABLE UPON REQUEST