Benjamin Korty

10420 Kennemere Lane
Parker, CO 80134

(609) 213-3377
Korty@ou.edu

OBJECTIVE

Seeking summer engineering internship in order to gain experience in and contribute to electrical and computer engineering research and development.

EDUCATION

University of Oklahoma, Norman, OK
Bachelor of Science in Electrical Engineering, May 2018
Major GPA: 4.0/4.0 Overall GPA: 3.61/4.0
Minors: Physics, Math

RELEVANT COURSEWORK

- Electromagnetic Fields
- Circuits II
- Signals and Systems
- Introductory Electronics
- Microprocessor System Design
- Abstract Linear Algebra
- Partial Differential Equations

- Programming Structures and Abstractions
- Discrete Structures
- Modern Physics
- Thermodynamics
- Physical Mechanics

RELEVANT EXPERIENCE

Ball Aerospace, Boulder, CO, *Summer 2016*
Project Mentor: Joel Godard
RF Engineering Intern

- Modeling, designing, and testing of temperature dependency of transmission line structures using HFSS, Microwave Office, and AutoCad
- Characterizing temperature sensitive dielectric materials using a network analyzer and MATLAB
- Designing of transmission line structure testing procedures for high temperatures

University of Oklahoma, Norman, OK, *Spring 2016-Present*
Research Adviser: Dr. Jessica Ruyle
Student Research Assistant

- Analyzing frequency and pattern reconfigurable antenna structures using a network analyzer
- Simulating and testing reconfigurable slot antennas using HFSS
- Fabricating antenna and transmission line structures through lithography process
- Measuring and testing magnetic material bias loads

Karcher, North America, Denver, CO, *Summer 2014*
Research Supervisor: Kurt Reichold
Chemical Research Intern

- Conducted chemical testing of industrial detergents for concentration standardization
- Managed chemical components catalog of all company detergents and cleaners
- Analyzed and developed company product testing procedures and protocols

COMPUTER/TECHNICAL SKILLS

Programming Languages: Java, C/C++, Python, Swift
Software Packages: MATLAB, HFSS, Microwave Office, LabView, Mathematica, AutoCAD, Autodesk Inventor, MultiSim, Eagle, Microsoft Office (Word, Powerpoint, Excel)
Technical Skills: Network Analyzer, Anechoic Chamber Measurements, Oscilloscope, Lithography, Soldering (Electronics, Acetylene Torch), MIG Welding, Machine Shop

ACTIVITIES/INVOLVEMENT

- Student member of the OU Chapter of the IEEE,   *Fall 2015- Present*
- Member of OU Honors College,   *Fall-2015*

AWARDS

- National Merit Scholar, *2015*
- OU ECE Scholarship Recipient, *2016*