

KRISTIAN GJIKA

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OBJECTIVE

To obtain a full-time electrical engineering position leveraging my technical, communication, and leadership skills. Willing to relocate.

EDUCATION & PROJECTS

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering

December 2015

Bachelor of Science in Electrical Engineering

- Coursework: Computing for Engineers, Digital Signal Processing, Circuit Analysis, Digital Design Lab Electromagnetism, Microelectronics, Signals and Systems, Intro to Computer Engineering, Circuits & Instrumentation Lab, Probability and Statistics, Feedback Control Systems, Optical Engineering, and Intro to Automation & Robotics
- Scholarships Earned: Batts and Brown VIP Award

EXPERIENCE

NORFOLK SOUTHERN RAILWAY, Communications and Signals Intern

Summers 2014 & 2015

Class I railroad operating 24 hundred route miles in 22 eastern states

- Assisted 6 field officers and 20 agreement employees in maintenance and repair of electrical logic, communication, and switching equipment in largest classification yard of NS system
- Gained holistic understanding of emergency and non-emergency field engineering, including working on twenty hour, time sensitive, 4 car train derailment
- Created and maintained technical diagrams of computer systems and railway maps
- Earned praise and confidence of superiors and was offered full-time position

AIRBORNE MEASUREMENTS OF ATMOSPHERIC ELECTRICITY, Research Assistant

Fall 2014 - Present

16 person group constructing weather balloons to study electrical phenomena in stratosphere

- Lead six person sub-team in designing successful tracking system allowing recovery subgroup to find payload after traveling approximately 250 miles from launch site
- Proposed, designed, and implemented DTMF control system using C code and mbed microcontroller
- Presented on behalf of group twice, including receiving 2nd place award and \$1,500 funding for lab for written and oral presentation delivered discussing projects
- Earned Batts and Brown Scholarship for career and professional development

SULCHEK BIOMEMS AND BIOMECHANICS LAB, Research Assistant

Summer 2013 – Spring 2014

Multidisciplinary lab dedicated to research biological processes at a cellular level

- Produced 3 iterations of atomic force microscope prototypes in 2 person team
- Delivered written reports based on critical points in design process

DIGITAL DESIGN LAB – FPGA Controlled Robot

Summer 2013

- Four person team authoring ASM code to autonomously guide robot through obstacle course
- Developed wall following algorithm and integrated it with other members sub components

LEADERSHIP

FIRST ROBOTICS TEAM 2415, College Mentor

Spring 2015

57 Student FIRST Robotics Challenge team based in the Westminster School in Atlanta, GA

- Leveraged four years high school robotics experience in leading eight student electronics sub team in implementing robot motor and solenoid controllers and sensing system
- Advised business team in authoring two major awards

GEORGIA TECH ADMISSIONS OFFICE, Tour Guide

Spring 2013 - Fall 2014

Volunteer organization that gives tours of the Georgia Tech campus to prospective students

- Lead over 400 interested students and families in tours of Georgia Tech campus
- Trained and advised new members of Georgia Tech Tour Guides

TECHNICAL SKILLS

Software: C/C++, MATLAB, Autodesk Inventor and AutoCAD, Assembly code, SPICE, VHDL

Equipment: Experience using oscilloscopes, logical analyzers, spectrum analyzers, millimeters, function generators and modulators, soldering and rework tools