

# Michael King

Last Updated on 17th August 2016  
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## EDUCATION

### WESTERN CAROLINA UNIVERSITY

B.S. IN ELECTRICAL & COMPUTER  
ENGINEERING TECHNOLOGY  
May 2015 | Cullowhee, NC  
Kimmel School  
Dept. of Engineering & Technology  
GPA: 3.62 area | 3.27 overall

B.S. IN COMPUTER SCIENCE  
MINOR IN MATHEMATICS  
May 2016 | Cullowhee, NC  
College of Arts & Sciences  
Dept. of Mathematics and Computer Science  
GPA: 3.23 overall

### FOCUS AREAS WITHIN DEGREES

Electrical:

Circuit Analysis

Digital Signal Processing

Electronic Devices (BJTs, Diodes, MOSFETs/JFETs,  
OpAmps, etc.)

Logic Systems Design (Boolean algebra, logic circuits,  
sequential systems)

Control System & Power System Analysis

Microcontrollers (16-bit PIC24 MC, device registers,  
motor control, sensor integration, interfacing)

Calculus-based Physics (two levels)

Astrophysics (Spectroscopy, stellar evolution, galactic  
astronomy)

Computer Science:

Data Structures & Algorithms

Operating Systems

Computer Architecture

Networking

Functional Programming

Database Systems

Software Engineering (Large team projects)

Unix Tools and Scripting

## SKILLS

### PROGRAMMING

Fluent:

Java • C • MATLAB • Python

MIPS32 • HTML & CSS • Arduino • L<sup>A</sup>T<sub>E</sub>X

Proficient:

JavaScript • C++ • SQL • Mathematica

Ruby (on Rails) • VHDL/Verilog

Familiar:

Perl • Bash • Android API • Visual basic

### ELECTRICAL

Circuit Design & Analysis • Robotics &  
Embedded Systems • PCB Design &  
Fabrication • Soldering • 3D Printing

## EXPERIENCE

### WCU | LABORATORY AND PROJECT ASSISTANT

August 2015 – May 2016 | Cullowhee, NC

- Oversee engineering labs and classrooms
- Assist on projects carried out in the engineering and technology department
- Assist engineering professors on day-to-day activities

### CAROLINA WEST WIRELESS | SALES ASSOCIATE

May 2012 – Jan 2016 | Newland, NC

- Provided customer service, technical support, aid in account management, and aid in the sales of cellphones, service plans, and cellphone accessories
- Repaired and troubleshooted cellphones
- Gained experience in business management

### RADIOSHACK (HIGHLAND ELECTRONICS INC.)

SALES ASSOCIATE AND TECHNICIAN

May 2012 – Jan 2016 | Newland, NC

- Offered customer service and aid in the sales of store products as well as troubleshooting and repairing electronic devices
- Performed initial programming and setup of Ubiquiti's 2.5GHz and 5GHz airMAX® Bridge radio antennas
- Conducted satellite dish alignment and synchronization to ViaSat-1 (NC Beam 335)

### AVERY COUNTY SCHOOLS

TECHNICAL INTERNSHIP

Aug 2010 – Jun 2011 | Newland, NC

- Internship held during my senior year of high school where my tasks included repairing computers, printers, TVs, projectors, taking inventory, building new computers for labs, among others
- Aided in a large-scale project to install a wireless network system throughout my high school
- My late mentor, Don F. Powers, was a former electrical engineer at NASA for ~30 years. His career and involvement spanned the Apollo, Gemini, and Space Shuttle programs. His knowledge, teachings, and passion were contagious and drove me to pursue science, engineering, and technology as both a hobby and as a career

## SOCIETIES AND ORGANIZATIONS

2014-pres.	Institute of Electrical and Electronics Engineers (IEEE) (Secretary of WCU Student Branch)
2014-pres.	Association for Computing Machinery (ACM)
2014-2016	WCU Robotics Club (Team programmer and electrical engineer)
2014-2016	WCU Computer Science & Math Club
2011-2013	WCU Pride of the Mountains Marching Band
2010-2011	National Technical Honors Society

## EXTRACURRICULAR

German (proficient) • Robotics • Neural Network Research • Gaming  
DIY electrical projects • Guitar • Hiking • Astronomy • Astrophotography

## REFERENCES

### **PETER TAY, PH.D.**

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ELECTRICAL AND COMPUTER ENGINEERING TECHNOLOGY  
Kimmel School  
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### **WILLIAM KREAHLING, PH.D.**

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### **JERRY DENTON**

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