

Michael King

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LinkedIn://mtking2
mtking2@catamount.wcu.edu | 828.406.1743

EDUCATION

WESTERN CAROLINA UNIVERSITY

B.S. IN ELECTRICAL & COMPUTER
ENGINEERING TECHNOLOGY
May 2015 | Cullowhee, NC
Kimmel School
Dept. of Engineering & Technology
GPA: 3.62 / 4.0

B.S. IN COMPUTER SCIENCE
MINOR IN MATHEMATICS
Expected May 2016 | Cullowhee, NC
College of Arts & Sciences
Dept. of Mathematics and Computer Science
GPA: 3.23 / 4.0

UNDERGRADUATE COURSEWORK

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
HTML & CSS • Arduino • L^AT_EX
Proficient:
JavaScript • C++ • MIPS32 Assembly
Ruby (on Rails) • VHDL/Verilog
Familiar:
Perl • Android • MySQL

ELECTRICAL

Circuit Design & Analysis • Robotics &
Embedded Systems • PCB Design &
Fabrication • Soldering

EXPERIENCE

WCU | LABORATORY AND PROJECT ASSISTANT

August 2015 – Present | 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 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 • Microcontrollers • Audio/Video systems
DIY electrical projects • Guitar • Hiking • Astronomy • Astrophotography

REFERENCES

PETER TAY, PH.D.

ASSOCIATE PROFESSOR

ELECTRICAL AND COMPUTER ENGINEERING TECHNOLOGY

Kimmel School

Department of Engineering & Technology

Western Carolina University | 366 Belk Bldg. | Cullowhee, NC 28723

828.227.2161 tel | 828.227.3805 fax

ptay@email.wcu.edu

WILLIAM KREHLING, PH.D.

ASSOCIATE PROFESSOR

PROGRAM DIRECTOR OF COMPUTER SCIENCE

College of Arts and Sciences

Department of Mathematics & Computer Science

Western Carolina University | 426 Stillwell Bldg. | Cullowhee, NC 28723

828.227.3944 tel | 828.227.7240 fax

wkrehling@email.wcu.edu