

Ryan W Going

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PROFILE

Undergraduate at NC State looking for research opportunities in photonics. Plan to graduate in 2009 and attend graduate school for Masters and PhD studies.

EXPERIENCE

Summer Researcher, NIST, Boulder, CO

2008

11 Weeks characterizing GaN nanowires grown at NIST. Primarily used UV photoluminescence and SEM imaging to find material and structural defects in wires. Additionally wrote optical feedback algorithm for use with an NSOM to acquire spatially resolved spectra of individual wires.

Reference: Aric Sanders, Advisor 303.497.4731 aric.sanders@nist.gov

Research Assistant, NCSU-OLEG, Raleigh, NC

2006-2008

Primary work has been to develop force and torque expressions for a dielectric spheroid in non-uniform optical field using Maxwell stress tensor. Several side projects have included fabricating and characterizing liquid crystal polarization gratings and work on developing a polarizer using polarization gratings.

Reference: Michael Escuti, Advisor 919.513.7363 mjescuti@ncsu.edu

Summer Intern, IBM, Durham, NC

2005, 2006

Spent 10 weeks first summer setting up and configuring Nagios (nagios.org) system monitoring tool on AIX server. Wrote several custom plugins and documentation on the setup. The system was a prototype later put into use internally. Spent 12 weeks during second summer integrating Nagios into the internal network at IBM. Tasks included researching and developing needed tools and writing documentation.

Reference: Cliff Meyers, Manager (2006), 919.254.1932

Reference: Gary Wrayno, Manager (2005), 919.543.5643

Neverland System Administrator, NCSSM, Durham, NC

2004-2005

One of four system administrators for a 250+ user linux server (neverland.ncssm.edu), which included software installation and maintenance, user support, and teaching a beginners linux seminar.

Reference: Dr. John Morrison, Supervisor 919.416.2746

Office Assistant, NCSSM Business Office, Durham, NC

2004

Spent the summer as an assistant for the business office at the North Carolina School of Science and Mathematics. Duties included filing, copying, sorting mail, and answering phones.

Reference: Linda Pickett, Supervisor 919.416.2794

EDUCATION

North Carolina State University, Class of 2009. Electrical Engineering and Applied Mathematics Majors. Current GPA: 4.0

Graduate of North Carolina School of Science and Mathematics, Class of 2005. High School Degree. GPA: 5.14

SKILLS

Basic electronics lab skills. Basic optics lab skills. Some experience with AFM/NSOM and SEM. Matlab and Mathematica. Programming languages include Python, Perl, C/C++, Java, Java Script, BASH, PHP, and HTML with CSS. Extensive experience with OS X and Unix. User experience with Windows. Basic Word, Excel, Power Point.

LEADERSHIP

President of Amnesty International at NC State (2006-2007)

Assistant Senior Patrol Leader for troop 486

VOLUNTEER

Habitat for Humanity - Fall and Spring Breaks (2005-2007) Locations include: Asheville, NC; Tosagua, Ecuador; Mobile, AL

Tutoring at the Boys and Girls Club of Raleigh (2006)

Eagle Project - Itemizing furniture at the Sarah Barker Center for exceptional children to speed its reopening (2005)

Sarah P. Duke Gardens - 60 hours over summer (2003)

AWARDS

Astronaut Scholar (2007-2009)

Goldwater Scholarship Honorable Mention (2008)

Phi Kappa Phi (2008)

Eta Kappa Nu (2008)

Phi Beta Kappa (2007)

Undergraduate research Award (2007)

Eagle Scout (2005)

Order of the Arrow - Ordeal Member