

EDUCATION:**The Pennsylvania State University:** University Park, PA

Bachelor of Science: Nuclear Engineering: May 2013

Major GPA: 3.00/4.00 Cumulative GPA: 2.87/4.00

Minors: History, International Studies, and Theatre

International Engineering Certificate

Practical Course Work:

- Radiation Detection and Measurement **Spring 2012**
 - Theory and laboratory applications of radiation detectors, including: proton, neutron, charged particle detectors, Nuclear Instrumentation Module devices, and pulse-height analysis
- Experiments in Reactor Physics **Fall 2012**
 - Acquisition and processing of nuclear and atomic data
 - Application to nucleonic phenomena of importance in nuclear engineering
 - Monte Carlo N-Particle Simulation
- Power Plant Simulation **Fall 2012**
 - Simulation and interpretation of simulations of transients in nuclear power plants using the TRAC/RELAP Advanced Computational Engine and the Symbolic Nuclear Analysis Package
 - Design of a full nuclear power plant from base components
- Nuclear Reactor Core Design Synthesis **Spring 2013**
 - Develop a TRACE model under NRC guidance to simulate the Sandia National Laboratories full scale ignition tests with air as the working fluid
 - Develop a TRACE model under NRC guidance to simulate a full scale ignition test with water as the working fluid

University of Sussex: Brighton, East Sussex, England, United Kingdom

British Cinema, British Theatre, History: Summers 2010, 2012

US Equivalent GPA: 3.55/4.00

ACHIEVEMENTS and CERTIFICATIONS:

Eagle Scout (Boy Scouts of America)

Conversational German

Conference Presenter (American Nuclear Society 2013 National Student Conference)

American Nuclear Society – Pennsylvania State University and National chapter member

International Thespian Society Troupe #5029 – member

Amateur Radio Operator – Technician Class (Federal Communications Commission)

CPR/AED for Professional Rescuers (American Red Cross)

Water Safety Instructor (American Red Cross)

Certified Pool Operator (National Swimming Pool Foundation)

Certified Commercial Pesticide Applicator: Category 24 certification, Swimming Pools (Pennsylvania Department of Agriculture)

WORK EXPERIENCE:**Pennsylvania State University;** University Park, PA

- Stage Crew / Overhire Electrician **October 2011 to present**
 - Complete load-in and strike of performances
 - Provide technical stage services including: Follow Spot Operation, Light Board Operation, Sound Board Operation, and Stage Management

Minitab Incorporated; State College, PA

- Aquatics Para-Professional: **April 2008 to present**
 - Operate and maintain a 110,000-gallon pool including maintenance of chemical balance
 - Teach American Red Cross swimming lessons
 - Provide lifeguard services for company programs

State College Area School District; State College, PA

- Aquatics Para-Professional: **October 2006 to November 2011**
 - Supervise the operation and chemical balance of a 214,000-gallon pool
 - Supervise the lifeguard staff
 - Provide lifeguard services for school programs
- Armaments Advisor to the Renaissance Faire Club **September 2008 to January 2011**
 - Train students in the safe and appropriate use of authentic renaissance era weaponry including: sword, staff and ax
 - Create and maintain of databases of student information including safety contracts and health forms