

Aristidis E. Loumis

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EDUCATION

University of Illinois

Urbana – Champaign, IL

- B.S. Nuclear, Plasma and Radiological Engineering (NPRE)
 - Focus: Nuclear Power, Safety and the Environment

Degree Expected: Spring 2016

GPA: 3.1/4.00

Awards & Scholarships:

- *American Nuclear Society Undergraduate Outstanding Service Award (2015-2016)*
- *Energy for Education Scholarship – Exelon Corporation*
- *Best Poster Presentation: 2nd Place – American Nuclear Society Student Conference 2016*
- *Winning Team of the Nuclear Innovation Boot camp, 2016 hosted by Nuclear Innovation Alliance & UC Berkeley*

RELATED EXPERIENCE

Exelon

Cantera Offices – Warrenville, IL

Fuel Reliability Intern

(Summer 2016)

- Conducted an analysis of the PWR/BWR core coolant for the potential of foreign materials' obstruction
- Submitted Innovation Central Idea: Real Time Radiation Mapping using GIS analysis and cloud computing.
- Lead fundraiser for the Relay for Life of Glen Ellyn, Wheaton, Winfield raising (\$2800 for Cancer Research)

Radiation Detection & Isotope Identification Group (RDII)

University of Illinois - Champaign, IL

Undergraduate Research Assistant

(October 2015 – Present)

- Researching 3D Radiation mapping using Big Data analytics
- Conducting 3D Photogrammetric Scanning
- Live Streaming feeds via Amazon Web Services
- Coding and management of detectors through Android Studio

NPRE 201: Advanced Energy Systems

University of Illinois - Champaign, IL

Teaching Assistant

(August 2015 - Present)

- Conducted office hours supplementary toward class work for students, created and graded quizzes, homework
- Teaching of advanced energy systems, including hydro, wind, solar, fossil and nuclear fuels, as well as the global distribution of resources.

APA Financial Services, LLC

Chicago, IL

Systems Engineer

(September 2010 – April 2016)

- Optimization of invoicing, filing, accounting, administrative and tax preparatory systems
- Previously Office Manager

ADDITIONAL EXPERIENCE

Broadbelt Research Group

Northwestern University - Evanston, IL

Undergraduate Research Assistant

(Summer 2014)

- Researched theoretical chemical processes of biodiesel synthesis through computational analysis
- Modeled complex chemical kinetics to increase energy density of fuels and optimized work flow via python.

Chicago Initiative for Research and Recruitment in Undergraduate Science

DePaul University, Chicago, IL

Undergraduate Research Assistant

(Summer 2013)

- *Researched synthesis of nanoparticles*
- *Researched effects of biological nanoparticle interactions*

Lake Shore Sport & Fitness

Chicago, IL

Aquatics Supervisor & Instructor

(June 2014 – December 2014)

- *Managed employees, swimming lessons, correspondence between clients and instructors, and shift coordination.*

EXTRA CURRICULAR ACTIVITIES

President of the American Nuclear Society – University of Illinois Chapter

May 2016 to Present

Parliamentarian of Phi Theta Kappa Honor Society – Harold Washington College

May 2012 to May 2013

LGBT PRIDE CLUB – Harold Washington College

May 2012 to May 2013

LANGUAGES & SKILLS

Greek

Python

Linux

MATLAB

Unity 3D

Android Studio

Amazon Web Services Web Design & Management