

Aristidis E. Loumis

508 E. University Ave, Unit 540, Champaign, IL 61820 – 312-623-3607 – E-mail Loumis2@illinois.edu
<https://www.linkedin.com/pub/aristidis-loumis/51/b3a/58>

EDUCATION

University of Illinois

Urbana – Champaign, IL
Degree Expected: Spring 2017

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

Relevant Experiences

- Spent Nuclear Fuel Storage (SHV262) – KTH Royale Institute of Technology **Stockholm, Sweden**
 - Researched spent nuclear fuel storage systems of the Swedish Nuclear Waste Management Company. (Summer 2015)

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 Generation

Corporate Headquarters – Warrenville, IL

Nuclear Engineering Intern

(Summer 2016)

- Traveled to multiple Nuclear Power Plants throughout Illinois for the purpose of understanding their roles and how the nuclear industry functions.
- Conducted an analysis of the PWR/BWR core coolant for the potential of foreign materials' obstruction
- Innovated for company by consulting on Radiation Protection's Emergency Preparedness department by submitting an idea to "Innovation Central" of real time radiation mapping for emergency preparedness using GIS analysis and cloud computing as opposed to communication of radiation data through audio on satellite phone.

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

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
- Live Streaming feeds via Amazon Web Services cloud computing
- Coding and management of detectors through Android Studio
- Unity 5 gaming and software development

NPRE 201: Advanced Energy Systems

University of Illinois - Champaign, IL

Teaching Assistant

(August 2015 - Present)

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

ADDITIONAL EXPERIENCE

Broad belt 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 workflow via python.

EXTRA CURRICULAR ACTIVITIES

President of the American Nuclear Society – University of Illinois Chapter

May 2016 to Present

American Cancer Society Relay for Life - Many different leadership positions

May 2007 to Present

LANGUAGES & SKILLS

Greek

Python

Linux

MATLAB

Unity 3D

Android Studio

Amazon Web Services Website Design & Management