

Aristidis (Aries) 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 2017

GPA: 3.0/4.0

Relevant Experiences

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

Awards & Scholarships:

- *Knight of St. Patrick – University of Illinois 2017*
- *American Nuclear Society Undergraduate Outstanding Service Award (2015-2016)*
- *North-American Young Generation in Nuclear Advocacy Award - 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 Fuels 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 obstruction by foreign materials'
- Consulted 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.

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 – October 2016)

- Teaching aide of advanced energy systems, including hydro, wind, solar, fossil and nuclear fuels, as well as the global distribution of energy resources.
- 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 chemical kinetics of biodiesel synthesis through high-performance computation analysis.

APA Financial Services, LLC

Chicago, IL

Systems Engineer – Office Manager

(September 2010 – April 2016)

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

Chicago Initiative for Research & Recruitment in Undergraduate Science

Chicago, IL

Undergraduate Researcher

(Summer 2013)

- Researched production methods and the biological effects of nanoparticles.

EXTRA CURRICULAR & VOLUNTEER WORK

American Nuclear Society UIUC – President

May 2016 to Present

American Cancer Society Relay for Life – Positions ranging from volunteer to Co-Event Chair

May 2007 to Present

Student Sustainability Leadership Council UIUC – Board Member

Sept 2016 to Present

Out in Science Technology, Engineering & Mathematics UIUC- Member & Charity Organizer

Sept 2016 to Present

Generation Atomic – Board of Directors

May 2016 to Present

LANGUAGES & SKILLS

Greek	Python	MATLAB	Unity 3D	Android Studio	Community Outreach
Amazon Web Services	Website Design & Management			Thermal & Fluid Dynamic Modeling	Leadership