Ioannis Sakiotis

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EDUCATION

Old Dominion University
Doctorate of Philosophy: Computer Science *May 2022*
Master of Science: Modeling and Simulation Engineering *Aug. 2016*
Bachelor of Science: Modeling and Simulation Engineering *May 2014*

EXPERIENCE

Internship
Summer 2019

GPU Accelerated Computing at Fermilab National Laboratory

- Development of multi-dimensional integration Software
- Interface development for conditional CPU and GPU integration

Graduate Teaching Assistant
Aug. 2018 - May 2019

Object Oriented Programming

- Designed and implemented original projects and assignments to test student knowledge of OOP
- Provided teaching material in the form of tutorial videos

Thesis
Aug. 2014 - Aug. 2016

Framework for Collaborative Autonomous Systems

- Developed a Simulation Based Software Framework
- Constructed an Expandable Layered Structure using C++
- Designed a Communication System Interface
- Designed a Robotic Middleware Interface

Undergraduate Research
May 21016 - July 2016

Remote Control of Ground Robotic Vehicle

- Implemented radio-based controls via Mavlink Protocol

Aug. 2015 - May 2016

Simulation Based Production Planning and Scheduling tool

- Designed a factory-floor work-flow simulation software
- Designed and implemented an Input-handling Graphical User Interface
- Designed a Work-Scheduling Graphical User Interface

SKILLS

Programming

C++, Java, Python, MATLAB, GPU Programming (CUDA), MPI, Hadoop, PySpark, HTML, CSS, JavaScript, D3, PHP, SQL(Oracle), PL/SQL, Visual Basic for Applications, Visual Studio, LaTeX, R, Linux

Leadership

President of the Hellenic Society of Old Dominion University *May 2013- May 2014*
Treasurer of the Hellenic Society of Old Dominion University *Jan. 2013 - May 2013*
Tutor of the Hellenic Society of Old Dominion University *Jan. 2012 - May 2014*

AWARDS AND PUBLICATIONS

- Discrete Event Simulation for Supporting Production, Planning, and Scheduling Decision in Job Shop Facilities, ModSim Conference World 2014, Norfolk 2014
- Discrete Event Simulation Implementation of a Production Planning and Scheduling Tool, Capstone Design Conference 2014, Hampton 2014
- A simulation-Based Layered Framework for the Development of Collaborative Autonomous Systems, Graduate Thesis, 2016
- Robert E. Lee Chapter of Ahepa Scholarship (2015, 2016, 2017, 2018)
- Outstanding Graduate Teaching Assistant (Spring 2019)
- Efficient Parallel Multi-bunch Beam-Beam Simulation in Particle, Colliders, HIgh PErformance Computing, Datan and Analytics, HiPC, Hyderabad, India, 2019