

# IOANNIS SAKIOTIS

757-338-5182

email: isaki001@odu.edu

## EDUCATION

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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

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### 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 2016 - 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

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### 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**

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- 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, Data and Analytics, HiPC, Hyderabad, India, 2019