

Matthew Giallourakis

matthewgiallourakis@gmail.com

Education

Florida Polytechnic University

Master's Degree, GPA 4.00: Summa Cum Laude

Electrical Engineering: Robotics

Lakeland, FL

2018–2020

Florida Polytechnic University

Bachelor's Degree, GPA: 3.92: Summa Cum Laude

Mechanical and Industrial Engineering: Nanotechnology

Lakeland, FL

2014–2018

Research Experience

Student Research

Origami Tessellations for Use in Robotic Gripper Mechanisms

Thesis Research

Invented a new method of producing custom-fit grabber mechanisms for difficult shapes with minimal cost by using origami technology

Florida Polytechnic University

2018-2020

Rigaku SmartLab SAXS Configuration Project

Research Assistant

Assembled and configured a Rigaku SmartLab X-Ray Diffractometer for Small-Angle Scattering experiments

Florida Polytechnic University

2017

Independent Research

Renaissance Life Android Application

Software Development

Developing an effort-tracking android application

Independent

2021-

Repetitive Strain Injury Mitigation Project

Research and Development

Created a method of mapping common computer operations onto a midi piano keyboard for those unable to use standard keyboard shortcuts

Independent

2015-2017

Work Experience

SteamTechs

Management, Software, and Product Engineering

Developing robotic automation tools for glass workers and artists

Fort Meade, FL

Jan 2021–

Loyal Cast LLC

Software Engineering and Technical Designer

Designed automated tools for custom restaurant loyalty programs

Palm Harbor, FL

Jan 2018–Jan 2021

RISE Real Estate

Community Assistant

Assistant in leasing, sales, event planning, and conflict resolution

Lakeland, FL

May 2015–May 2016

Skills

General

Microsoft Office: Word, PowerPoint, Excel, Project

CAD: SolidWorks, SketchUp

Programming: Python, Kotlin, Haskell, C++, MATLAB, JavaScript

Other: Advanced Mathematics

Specialties

Robotic Systems Analysis and Automation, Functional and Artistic Design, Folding (Origami) Structures

Awards

Annual MLH Hackathon

Third Place

University of South Florida

2019

Physics Laboratory Presentation Competition

First Place

Florida Polytechnic University

2016

Accusoft's First Annual Developer Deathmatch

First Place

Florida Polytechnic University

2015