Matthew Giallourakis

matthewgiallourakis@gmail.com

Education

Florida Polytechnic University   **Lakeland, Fl**
Master's Degree, GPA 4.00: Summa Cum Laude   *2018–2020*
Electrical Engineering: Robotics

Florida Polytechnic University   **Lakeland, Fl**
Bachelor's Degree, GPA: 3.92: Summa Cum Laude   *2014–2018*
Mechanical and Industrial Engineering: Nanotechnology

Work Experience

Foldster's Projects LLC   **Bartow, Fl**
Managing Director, Developer   *July 2024–*
Developing custom software tools

Haneke Design   **Tampa, Fl**
Lead Mobile Developer   *Feb 2023–*
Managing the development of over one dozen mobile applications across multiple
technology stacks and use cases

Florida Industrial & Phosphate Research Institute   **Bartow, Fl**
Lab Assistant   *May 2022–May 2023*
Prepared and processed geological samples for composition analysis

Loyal Cast LLC   **Palm Harbor, Fl**
Software Engineering and Technical Designer   *Jan 2018–Jan 2022*
Designed automation tools for restaurant meal pickup and loyalty programs

Research Experience

Origami Tessellations for Use in Robotic Gripper Mechanisms   **Florida Polytechnic University**
Thesis Research   *2018-2020*
Invented a new method of producing custom-fit grabber mechanisms for difficult
shapes with minimal cost by using origami technology

Rigaku SmartLab SAXS Configuration Project   **Florida Polytechnic University**
Research Assistant   *2017*
Assembled and configured a Rigaku SmartLab X-Ray Diffractometer for Small-Angle
Scattering experiments under the direction of Dr. Richard Matyi

Skills

General

Programming Languages: Kotlin, Python, JavaScript/TypeScript, GLSL, C, MATLAB, Bend

Frameworks: React, React Native, Expo, Android Jetpack Compose, Kotlin Multiplatform

CAD: SolidWorks, Fusion 360, SketchUp

Office Tools: Word/Docs, PowerPoint/Slides, Excel/Sheets, Project

Specialties

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

Awards

Annual MLH Hackathon   **University of South Florida**
Third Place   *2019*

Accusoft's First Annual Developer Deathmatch   **Florida Polytechnic University**
First Place   *2015*