

# Felix Aguilar

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## EDUCATION

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### University of Central Florida (UCF)

May 2026

Bachelor of Science in Materials Science and Engineering

GPA: 3.96

- Burnett Honors College Scholar

## WORK EXPERIENCE

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### Laboratory for Advanced Materials and Additive Manufacturing | *Sohn Group at UCF*

2022 - Present

*Undergraduate Research Assistant*

- Conducted gas atomization of aluminum alloys and eutectic high entropy alloy
- Operated an SLM125HL selective laser melting printer to optimize component density for AISI 4340 steel
- Applied microstructural and mechanical testing skills to investigate the microstructural development and mechanical properties of AISI 4340 steel manufactured by laser powder bed fusion

## ACTIVITIES & LEADERSHIP

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- **Material Advantage | UCF Chapter**

Founder, current chapter president, and former chapter secretary

2022 - Present

- **Society of Hispanic Professional Engineers | UCF Chapter**

Current active member

2021 - Present

## PROJECTS

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### Society of Hispanic Professional Engineers UCF Chapter

2021 - Present

*LeaderSHPE, Committee Member*

- Drafted ideas with two team members to update the student organization's information board with the purpose of increasing the attraction of new potential members

*Projects Committee, Committee Member*

- Applied knowledge in soldering and circuitry to assemble a variety of projects including an LED strip, an automatic hand sanitizer dispenser, a self-watering plant pot, and a "useless box"

### Concepts of Engineering Course

2021

*Great Naval Orange Race Competition, Project Team Member*

- Designed and constructed an autonomous boat capable of traversing 87 meters using the shortest amount of time
- Down selected a material for the boat which reduced the cost of the boat by 50% without sacrificing buoyancy and structural integrity

## SKILLS & CERTIFICATIONS

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- **Technical:** Beginner scanning electron microscopy, tensile testing, compression testing, Vickers microhardness testing, flexural testing, x-ray diffraction, optical microscopy, and impact testing skills; Basic Soldering Experience
- **Software:** Beginner Excel skills, SOLIDWORKS Associate Mechanical Design Certificate
- **Languages:** Proficient in English and Spanish

## VOLUNTEER EXPERIENCE

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### Society of Hispanic Professional Engineers UCF Chapter

2022

*SHPE Jr. Spring Conference, Event Volunteer*

- Collaborated with 6+ volunteers in setting up a high school visit event at UCF campus
  - Ensured that event materials were sufficient and in good condition to conduct all of the activities within the event
  - Assisted event coordinators by judging and supervising attendees on their bridge design contest
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