



# JOSHUA A. GONZALEZ

## Professional Experience

### The Walt Disney Company - Engineering Professional Intern

Jan 2022 - Present

- Identify potential cost saving projects based on engineering and emerging technology applications with the Global Applied Technology (GAT) team
- Execute materials selection, research, and testing on a global scale for Walt Disney Parks & Resorts segment
- Perform material analysis and tensile testing with FT-IR spectroscopy and an MTS respectfully

### Applied Materials - Software/Web Design Intern

Jun 2021 - Dec 2021

- Design and implement a research roadmap through user flows and prototype testing to launch an intranet SharePoint site for the AGS Sales team
- Conduct individual and team meetings to create and execute a design workflow plan for the new SharePoint site
- Modify the organization of team resources from multiple SharePoint sites to one SharePoint hub site for better ease of access

### Drexel University - Materials Science & Engineering Research Associate - MXenes for Energy Storage with Dr. Yury Gogotsi

Apr 2021 - Dec 2021

- Create 2D transition metal carbides and nitrides (MXenes) to improve energy storage for various product applications
- Analyze different MXene-composites for battery separator/electrolyte applications in Li-S batteries
- Develop a simplified MXene synthesis process to commercialize MXene creation for all energy storage product applications

### Drexel University - Materials Science & Engineering Research Associate - Epitaxial SrGeO<sub>3</sub> Films with Dr. Steven May

Oct 2020 - Apr 2021

- Employed molecular beam epitaxy to synthesize SrGeO<sub>3</sub> thin films and identify growth conditions that allows for synthetization
- Established characterization of the SrGeO<sub>3</sub> films using spectroscopic ellipsometry
- Created new compound material films to synthesize and characterize (based on experimental research) to enhance power electronics

## Extracurricular Involvement

### Women Supporting Women in the Sciences Volunteer | May 2021 - Aug 2021

- Collaborate with international volunteers to design content and facilitate laboratories in creating curriculum inclusive to middle and high school girls
- Design and distribute low-cost physics and materials science lab kits relevant to elementary and secondary school students in Africa
- Verified the effectiveness of created lab kits through testing in middle and high school laboratories to empower women in STEM globally

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## Education

Drexel University

Philadelphia, PA

**Master of Science in Materials Science & Engineering**

Expected Graduation: Dec 2022

- Tau Beta Pi National Engineering Honor Society
- College of Engineering Dean's Fellowship
- Leroy L. Resser Fund Award
- Hispanic Scholarship Fund Alumni

Seton Hall University

South Orange, NJ

**Bachelor of Science in Physics  
Minor in Web Design**

Graduated: May 2020

- Dean's List
- Antoine York Memorial Scholarship

## Skills

- Microsoft Office Suite: Word, PowerPoint, Excel, OneNote, Outlook.
- Google Suite: Docs, Sheets, Slides, Drive, Mail, Calendar, Hangouts.
- Adobe Suite: Photoshop CC, Illustrator CC, Premiere Pro, XD, Lightroom.
- Other: InVision, iMovie, Windows, MacOS, iOS, Android, Facebook, Instagram, Snapchat, LinkedIn, YouTube.