

# Amira Abdalla Tobasi

*Mechanical Engineer*

## CONTACT INFO

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## EDUCATION

*BS Mechanical Engineering*, Georgia Institute of Technology, August '16 – May '20

- International Plan – Language of Concentration: Spanish
- Grade Point Average – 3.77

*Mechanical Engineering*, Universidad Carlos III de Madrid, January '18 – June '18

## TECHNICAL SKILLS

*Languages:* native **Arabic**, native English, advanced-proficient Spanish

*Computer Programs:* Matlab, JavaScript, R Studio, HTML, Python

*Software Skills:* SolidWorks, SketchUp, Fusion, Excel

## INVOLVEMENTS

*Volunteer:* United Nations High Commissioner for Refugees, Youth Action Hudson

*Awards:* Presidential Volunteer Service Award, National Science Merit Scholar

*Activities:* GT Salsa Club, GT Club Gymnastics Team

## WORK EXPERIENCE

*Design and Fabrication Engineer*, PRAAN, January '19 – present

- Work with cold plasma and ionizer technology alongside bioengineering team
- Analyze data to design scalable outdoor air purifiers to decrease pollution in high-risk countries i.e. India, China, Vietnam
- Design models to optimize device's internal air flow in SolidWorks with appropriate GD&T and render for presentation to investors
- Alter models to progressively increase prototype safety and efficiency
- Fabricate designs for air purification systems i.e. drilling, soldering

*Administrative Intern*, DBS Manufacturing, August '18 – present

- Proofread international proposals in Arabic, Spanish and English
- Collaborate with international employees to revise code in Python corresponding to new display notifications for various products
- Collaborate with coworkers to advance SolidWorks engine designs to improve efficiency and aesthetic

*Research Intern*, Modern Arabia for Solar Energy, May '17 – July '17

- Researched solar storage mechanisms best suited for clients interested in installing an onsite battery through data collection, online research, and analysis
- Assisted employees with sketches and data collection on construction site visits
- Model residential and commercial photovoltaic panel setups in CAD and SketchUp to present infrastructure layout and data projections to customers
- All discussions, tasks and meetings performed in Arabic

## LEADERSHIP

*Vice President: Internal Management, Ambassador*, Georgia Tech International Ambassadors, September '17 – present

- Manage 70 ambassadors conducting weekly all-member meetings as well as weekly committee meetings, organize internal events to maintain a positive work environment, hold all members accountable for their work and impact on the international community
- Work to create a more diverse campus by recruiting international students to Georgia Tech, encouraging intercultural interactions, and helping to acclimate the new international students as they settle in at Tech

*Head Treasurer*, Students Organizing for Sustainability, September '16 – January '18

- Write short bills to apply for funding from various organizations, prepare and submit annual SGA bill proposals, manage the dues of the organization's members, purchase necessary supplies through the Student Organization Finance Office (SOFO)
- Work in the garden on garden work days, lead monthly meetings, host events promoting sustainability