

James Adams

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EDUCATION

University of Houston – Downtown, University College – Houston, Texas

December 2019

Bachelor of Science, Engineering Technology and Sustainability Minors with a focus in Business

Student commencement speaker for Fall 2019 Graduating Class

AWARDS – Community Service and Learning Engagement Grant (2018), Sustainability Initiative Grant (2018), Pell Grant Scholarship (2018)

PUBLICATIONS – International Journal of Occupational Hygiene under review

SKILLS

Software: AutoCAD, Sketchup, Microsoft (MS) Office, Excel, Word, Outlook, PowerPoint, E-Commerce (SEO), PSpice,

Instruments: Electric Circuits, Renewable Energy Systems, Rainwater Collection and Installation

Language: Python, VBA

Laboratory: Streak Plating, Injection Molding, Machining, 3D Printing, Welding

Writing: Feasibility Reports, Cost-Benefit Analysis, Proposal Writing, Business Plan, Marketing Strategy, Patent and Trademark (USPTO Filing), Creative Writing

Verbal: Pitching, Public Speaking, B2B & B2C Client Relationships, Event Producing

PROJECTS

Climatic Station – Houston, Texas

November 2019 – Present

- Utilizing Python and CAD design and 3D Printing to pull real-time data into a pre-configured database with hardware device
- Constructing autonomously reactive greenhouse collecting climate data referencing historic data trends and behaviors

ESG Metric Database – Houston, Texas

April 2018 – Present

- Database determining the environmental, financial, and human gross margin of the PANGEA Greenhouse
- Compiled information on the material weight and density of all materials used to calculate the environmental footprint

PANGEA Greenhouse – Houston, Texas

April 2018 – Present

- Harvesting food, water, and energy through adaptive creative design
 - Supported by two UHD/USDA grants totaling \$5,000 and earned the nomination to present in three local and regional conferences
 - Merging solar and wind power proving no significant statistical difference between plants grown in PANGEA system and soil-bed
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EXPERIENCE

Sustainable Harvesters – Hockley, Texas

September 2020 – Present

Assistant, Analyst, & Sales Representative

- Developing ROI analysis and conducting RCA to maximize greenhouse operations
- Research the integration of renewable energy and experimentation of generating electricity from lettuce
- Aiding team on daily operations activities and selling at local farmers markets, performing deliveries, and sourcing clients

SEAL Awards – Sustainability Awards – Houston, Texas

July 2020 – September 2020

Impact Team Member

- Researching e-commerce platforms sustainability initiatives to organize and design sustainable filters in a remote team setting

Moss Landscaping – Houston, Texas

November 2019 – August 2020

Drainage and Irrigation

- Design-build firm installing drainage and irrigation for new and existing construction projects within the confines of city permit guidelines with an annual \$1 million budget

University of Houston - Downtown – Houston, Texas

Summer 2018

Center for Urban Agriculture and Sustainability

Participant & Competitive Experiential Learning Program

- Design and developed an automated compost system with a team collecting compost pile samples and performed streak plating in biology laboratory

PartnerUP App, LLC – Houston, Texas

February 2015 – 2017

Mobile Application

Founder

- Managed product and design, attaining a total of 500 app users and became a BBVA Momentum Regional Finalist
 - Presented product at conference with ~250 people in attendance and produced three consecutive events with a total of 300 attendees
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ADDITIONAL

Volunteering - Crime Stoppers Houston, Texas House of Representative District 126, and Levy Park Community Garden

Licenses & Certifications – Completing UH GIS Grad Certificate and LEED Green Associate Certification