

Austin Palya

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EDUCATION

The University of Alabama

Bachelor of Science in Mechanical Engineering, Aerospace Engineering Minor
University Honors Program, UA Scholar, University Scholars Program
GPA: 3.55/4.0

Tuscaloosa, AL
May 2017

UNDERGRADUATE RESEARCH

Computational Mechanics Group

Fall 2016-Present

- Developed code to simulate heat transfer in ideal gas flows
- Direct Simulation Monte Carlo (DSMC) method in programming simulations
- Presented research findings monthly in a small group setting

WORK EXPERIENCE

Magellan Services Company *Richardson, TX*

Summers 2014-2016

Senior Engineering Intern

- 3D modeled and designed parts and assemblies for internal aircraft systems using Solid works
- Authored DVPR test plans for aircraft systems
- Prepared data sensor racks for Boeing E-4B aircrafts
- Fabricated and inspected fiberglass parts for internal aircraft systems
- Edited and revised drawings and images
- Identified and organized aircraft wiring diagrams and drawings
- Performed computational flow analysis (CFD) for internal and external structures
- Programed operational functions using Labview and block diagrams
- Manufactured parts using a 3D axis mill

North Texas Surveying Company *McKinney, TX*

December 2014

Winter Intern

- Worked on a small team to survey land for residential and commercial construction
- Verified drawings and data for topographic maps

Alta Mere Dallas *Dallas, TX*

Summers 2010-2013

Front Desk Manager

- Performed cashier's duties, scheduling, accounts receivable and payable, and inventory
- Sales assistant, marketed new products through sales and advertisements
- Networking lead with other companies to foster new products and services

LEADERSHIP

Operations Committee

Social Chair, Sigma Phi Epsilon

August 2015-2016

- Registered all events with the university as well as contacted external companies to provide event services
- Coordinated a weekly group meeting to plan and community events, tailgates, fundraisers, and group bonding events
- Co-Leader for the fall football game events, organization, budget, planning, and set up

Best Buddies UA

August 2014, 2015

- Volunteered with Best Buddies at The University of Alabama to work with adults and children with disabilities
- Facilitated organized small group activities such as sports
- Contributed to organization and preparation for the annual community Best Buddies event

External Affairs Committee

Member, Alpha Kappa Psi

Summer 2013

- Instituted a monthly gathering for students and faculty, topics included venue booking, budgeting, and marketing
- Participated in a team environment where collaboration was key to success

ACTIVITIES, INTERESTS and HONORS

Member: American Society of Mechanical Engineers (ASME), Sigma Phi Epsilon, Deans List Society

Honors: AP Scholar with Distinction, Presidents List/Deans List (2013-2014,2016)

Special Projects: NASA Micro-G NExT Competition 2017 Finalist – Co-design manager and data analyst

SKILLS and QUALIFICATIONS

- Proficient in Microsoft Office Suite; OS: Windows
- Experienced in Solidworks (FEA and CFD), AutoCAD, Matlab, Labview, C Programming Language