MICHAYAL MATHEW

michayal.github.io
github, linkedin, devpost.com/michayal
michayal@tamu.edu
(832) 715 4600

Education

Texas A&M University, College Station, TX *(August 2015 – December 2018)*   GPA: 3.28
BS, *Aerospace Engineering*; Minor: *Business*; Engineering Entrepreneurship Program

TAMS @ University of North Texas, Denton, TX *(August 2013 – May 2015)*
Early University Entrance, lived on campus and started taking university classes at age 16.

Work Experience

NASA Goddard Space Flight Center, <u>Engineering Intern</u> (*June 2017 – August 2017*)
- Devised a novel method to recreate 3D terrain of Mars/Lunar surfaces from satellites.
- Developed a VR Apollo-era astronaut training simulation with scientific tools.
- Article published on my efforts by A&M Engineering: *tx.ag/MichayalgoestoMars*

Texas A&M University, <u>Undergraduate Researcher</u> *(May 2016 - Present)*
- Addressed needs within the Texas A&M Aerospace Engineering program in the fields of visualizing CFD data and 3D CAD model interactions with Virtual Reality.
- Currently developing app for engineering education & analysis on Microsoft HoloLens.

Mizo App Development, <u>Software Developer</u> *(June 2016 – August 2016)*
- Co-founded Company to fulfill requirements for a client in the HVAC industry with an iOS App that computes calibration recommendations for refrigerants.
- iPhone app bolstered the company's value to $2M before acquisition.

Starbucks Barista *(2015)*, **Psychology Lab Intern** *(2014)*, **SteakNShake Waiter** *(2013)*

Projects

Electrospace *(Aggies Invent IoT, October 2016)*
- Prototyped, developed and pitched an integrated hardware and software platform that allows cloud control of roadside billboards for audience-targeted marketing
- 1st place Aggies Invent, Finalist in the U-Ignite Idea Pitching Competition, chosen to represent A&M at ASEE conference in Summer 2017 and to give a seminar there.

FriendFlix *(TAMUhack, September 2016)*
- Created a Chrome extension that uses Facebook Auth API, and AWS Lambda.
- Allows the user to recommend content to friends directly from within Netflix.
- Top 10 Hacks at TAMUhack, Best use of Amazon Web Services, Crowd Favorite

FIRST Robotics *(September 2012 - May 2015)*
- *Team 5212:* Helped found team, and was lead mechanical engineer. Won the Rookie Inspiration Award and the FIRST Future Innovator's Award.
- *Team 118:* CAD Design Team, Strategic Lead of the scouting team.

Relevant Leadership Positions

Student Engineers' Council, Texas A&M University *(September 2016 - Present)*
- *Co-Chair of Marketing/ Design Committee:* Responsible for all SEC outreach material
- *Marketing Coordinator for Career Fair:* In charge of marketing career fair to students
- *Professional Networking Trip:* Selected to represent A&M COE in Washington, DC

AIAA Design Build Fly Team, Texas A&M University *(September 2015 – February 2016)*
- Vital to the Aerodynamics subsection, responsible for flow simulations, determining airfoil flow characteristics, and wing geometry using XFLR5.

References

Dr. Darren J Hartl, Assistant Professor, Aerospace Engineering, Texas A&M University
Email: Darren.hartl@tamu.edu; http://maestrolab.tamu.edu

Dr. Brent Garry, Researcher, NASA Goddard Space Flight Center
Email: brent.garry@nasa.gov; https://science.gsfc.nasa.gov/sed/bio/brent.garry