

Vishakh Kumar

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EDUCATION

GEORGIA TECH

BS IN AEROSPACE ENGINEERING

Expected Graduation | Aug 2019

Minor in Computational Data Analysis

CAD PROJECTS

HYDROPONIC VASE

Provides running water to a six segmented vase. Provides a staggered flow of water to the vase. 3-D printable using ABS plastic. **Submitted at GrabCAD 3D Hydroponics System Challenge**

PORTABLE FRENCH PRESS

Features an inbuilt grinder, french press and thermos. Features customization for temperature, procedure time and grind grade. Used to make coffee with limited equipment and space.

Submitted at Sustainability Design-a-Thon 2016

GITHUB PROJECTS

ARDUINOSETUP

Website that takes the Arduino IDE and installs any library specified. Provides a one-step install tool for users new to the Arduino. Won **Best Developer Prize at PearlHacks 2016**

RIP

Website that takes video from Youtube, strips required audio and stores it for use by Garageband. Used to simplify the process of sampling music and making a sick beat. Won **Overall Prize at Hack the Beat 2016**.

HYPERPLANE

visualizes the rotation of 4-D objects in 3-D space using Processing. **Demoed at HackFSU 2016**

AUTOSCRIPT

Installs developer and productivity tools on a computer so that I can work on any system. Used to improve productivity while working on unknown computers.

AE1600GLIDER

Generates a glider in OpenScad using Python. Generates information such as drag and lift. Optimizes a balsa glider for maximum distance.

EXPERIENCE

HYTECH RACING | COMPOSITES + CFD ENGINEER

August 2016 – Current | Atlanta, GA

- Involved in designing front airfoils for SAE car.
- Gained certification in water jet cutting with the MAXIEM 1515
- Gained certification in CNC routing with CamWood Model:WR408
- Website:// HyTechRacing.gatech.edu

ADROIT INFINITUM | DESIGN + MANUFACTURING ENGINEER

June 2012 – May 2013 | Dubai, UAE

- Awarded the Social Media Prize held at Austin, Texas
- Awarded the National Champions at Yas Marina, Abu Dhabi.
- Designed and Manufactured the car for the F1 in Schools Competition primarily in Solidworks with elements in OpenSCAD.
- Tested aerodynamic features in Simulink.
- Gained experience with CNC machining and plastic material, especially HDPE.
- Facebook:// [AdroitInfinitem](https://www.facebook.com/AdroitInfinitem)

SPLIT SECOND | DESIGN + MANUFACTURING ENGINEER

June 2011 – June 2012 | Dubai, UAE

- Awarded the First Prize for Team Identity held at Yas Marina, Abu Dhabi
- Worked on designing and manufacturing the car for the F1 in Schools Competition primarily in Solidworks.
- Assisted junior teams inexperienced in Solidworks.

RESEARCH

ASDL - GEORGIA TECH | ASSISTANT UNDERGRADUATE RESEARCHER

Mar 2014 – May 2015 | Atlanta, GA

- Analysis of motor Performance in Electric Motors for N+3 Aircraft and Hybrid Design.
- Created database of electric motors with specifications.

SKILLS

PROGRAMMING

Haskell • Python • C • Flask • MATLAB • Microsoft Excel with VBA & Xlwings • \LaTeX

CAD

Solidworks • Autodesk Fusion 360 • Google Sketchup • Antimony • OpenSCAD