JAY KHATRI

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EDUCATION

TEXAS A&M UNIVERSITY '19
B.S. Computer Eng. EE Track
GPA: 3.896
Engineering Honors
University Honors

BARTOW HIGH SCHOOL (FL)
International Baccalaureate Program
GPA: 4.34 (Weighted)
ACT Composite Score: 35/36

COURSEWORK

PAST YEAR
Calculus 1, 2, 3
Physics: Mechanics, E&M
Engineering 1, 2 (Engineering Intro)

CURRENT YEAR
Data Structures/Algorithms
Digital System Design (w/ Verilog)
Programming Design Concept (C++)
Electrical Circuit Theory

SKILLS

MOST EXPERIENCE:
Circuitry/Electronics
(Arduino, BeagleBone, Raspberry Pi)
SolidWorks CAD Software

EXPOSURE TO:
JAVA (Android Studio)
Python
Linux OS

HONORS / AWARDS

FTC World Champion
(FIRST TECH CHALLENGE)
Dean's Honor Roll
TAMU Distinguished Student
AP Scholar with Honor
IB Diploma Awarded
CPR Certified

REFERENCES

Available Upon Request

EXPERIENCE

NETBOT LAB TEXAS A&M UNIVERSITY
(SPRING 2016 - PRESENT)

- Undergraduate Researcher in Dr. Dezhen Song's Research Group (Dept. of Computer Science)
- Developing ***Mobile Applications*** for data collection and analytics using Java and the Android Studio environment
- Project Title: "Indoor Localization and Mapping using Inexpensive Sensor Modules"

'FIRST TECH CHALLENGE' ROBOTICS TEAM
(FALL 2011- SPRING 2015)

- Implemented electronics, hardware, and software in competition robotic systems; Heavy emphasis on ***Autonomous Programming***
- ***Captain*** of FTC (First Tech Challenge) High School Robotics Team (Total 4,500 teams internationally) ***Winner of World Championship*** (St Louis, Missouri, April 2015)

PROJECTS

NASA SAMPLE ROBOT RETURN CHALLENGE
(FALL 2015- SUMMER 2016)

- Designed ***Electronics / Circuitry*** and ***SolidWorks models*** in large scale robotic systems
- Lead CAD/Electrical Designer for NASA-Sponsored "Sample Robot Return" Team, "Robo-Retrievers"

ROBOTICS CLUB PROJECT: TEXAS A&M UNIVERSITY
(FALL 2015- SPRING 2016)

- Performed Research/Development on ***Multimodal Drones*** (Aerial, water, and ground based transportation)
- Designed circuits with ***micro-controllers*** (Arduino, Raspberry Pi, BeagleBone) paired with related ***programming languages*** (Arduino IDE, Python)

COMMUNITY / LEADERSHIP

SUMMER HIGH SCHOOL EMPLOYMENT
(SUMMER 2016- PRESENT)

- ***Summer Instructor*** at Lakeland Christian School for student robotics workshop; Leading ongoing virtual instruction on the basics of programming in Java and the fundamentals of 3D CAD Design

ENGINEERS WITHOUT BORDERS TAMU CHAPTER
(FALL 2015)

- Member of ***PMEL (Planning, Monitoring, Evaluation, Learning)*** Team; Performed Data / Analytics on Panamanian citizens to optimize bridge implementation in small village