

Krutheeka Rajkumar, BS, MEng

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EDUCATION

COLORADO STATE UNIVERSITY

Bachelor of Science
Major: Engineering Science. Concentration in Space Engineering
Minor: Mathematics

Fort Collins, Colorado

[Sept 2013- May 2017]
[Engr GPA: 3.19/4.0]

UNIVERSITY OF TORONTO

Masters of Engineering
Department : Mechanical and Industrial Engineering

Toronto, Canada

[Aug 2018- Present]
[Engr GPA: TBD]

EXPERIENCE

COLORADO STATE UNIVERSITY

[Aug 2016- May 2017]

[TEAM MEMBER] [MOTOR ENGINEERING RESEARCH CENTER – Dr. Donald W. Radford]

Senior Engineering design project- BOEING- 3D printed Attenuator team

- Designed and analyzed the dual gantry system on a 3D printer capable of printing PEEK thermoplastics.
- Responsible for creating the CAD model of the printer. Doing mechanical and heat analysis on the CAD.
- Machined custom aluminum components for a 3D printer using a CNC, vertical mills, horizontal band saw

THE KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

[July 2017 – Dec 2017]

[INTERN][INTEGRATED NANOTECHNOLOGY LAB- Dr. Muhammad Mustafa Hussain]

- In charge of designing and constructing a heart sleeve that would be capable of actuating heart muscles to help with ventricular blood circulation
- A soft robot was constructed that would actuate upon an electrical stimulus. The testing and configuration of this robot was done and a final report was presented to the university.

COLORADO STATE UNIVERSITY

[Jan 2016 – May 2016]

[TEAM MEMBER] [MECHATRONICS LAB]

- Constructed an Interactive Punching bag for the Mechatronics Project:
 - In charge of electronic and mechanical integration of the project
 - Experience with IR sensors, SD card and microcontroller programming and actuator integration.
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ASSETS & INTERESTS

- Certification in [APTECH Learning]:
 - C/C++, Java
 - JSON, UI/UX, Ajax, JQuery, MySQL, Oracle
 - HTML, JavaScript, CSS
- Experience in Machining tools, linkage systems, electrical systems and mechatronic systems.
- Knowledge in Aerodynamic, space propulsion, mechatronics systems and Fluid systems
- Adobe Photoshop, Java, ANSYS programming analysis, CREO parametric modeling, SolidWorks CAD modeling, CNC and lathe machining, Microsoft word, Microsoft Excel and Microsoft PowerPoint
- Certified in lab safety training, hazardous waste disposal and first aid
- Languages: English, Hindi, Tamil.

Bangalore, IN

[Jan 2018-Aug 2018]

EXTRACURRICULAR ACTIVITIES

Member, ISA (Indian Students Association):

[Sept 2013 – May 2017]

- MC/ Event manager for India Nite 2013-2015
- Involved in the organization, coordination, and marketing for Indian Events (Diwali night, Holi, World Unity Fair and India Nite) around CSU.
- Taught fellow students dance routines that were presented on India Nite.

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Volunteer, CSU Chemistry Club:

[Sept 2013 – May 2017]

- Participated in setting up and conducting STEM projects and community outreach programs.

High school sports teams:

[Sept 2010 – May 2012]

- Point guard, Basketball.
- Defence, Soccer team.
- Volleyball.