

## Krutheeka Rajkumar, BS, MEng

Phone number: +1(647)549-6432 • E-Mail: krutheeka.rajkumar@gmail.com • E-Mail: krutheeka.rajkumar@mail.utoronto.ca

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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]

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### 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]

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### 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.