

Tenzin Tashi

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OBJECTIVE: Seeking an internship or co-op in the field of Materials Science and Engineering

EDUCATION

Rensselaer Polytechnic Institute (RPI) - Troy, NY

Expected: May 2019

Bachelor of Science in Materials Science and Engineering; Minor in Computer Science

GPA: 2.62

Highlighted Coursework:

Introduction to Engineering Design – Team project based course, conducted tests on plastics, analyzed fatigue and tolerancing

Learn Design Teach Nanotechnology – Distilled nanotech concepts into design challenges for kids, conducted literature surveys

Introduction to Data Math – Math and theory based course focusing on: data visualization, classification, clustering, and ridge regression

Mechanical Properties of Materials – Lab course with metals, polymers, ceramics – Studied: yield, fatigue, failure, tension/compression, dislocations, deformation, grain boundaries/size, strengthening, temperature effects, errors, testing limitations

SKILL

Equipment: Photospectrometer, AFM, SEM, Instron, Rockwell Hardness (LECO), Grinding/Polishing Tables

Computer: C++, Java, Python, R, SQL, Minitab, NX, LaTeX, Microsoft Access (+Office Suite/Google Drive), RockSim

Language: Fluent in Tibetan, Conversational Spanish

General: Viola – 14 years

PROJECTS

NASA Student Launch Initiative (RPI)

September 2015 – Present

Vice President, previously Secretary

- Carry out tests, collect data, and modify vehicular and payload design – followed design/documentation cycle
- Present design reviews over teleconferences to NASA SLI Engineers, and in person to other teams
- 2018 Payload: on board camera system to detect targets on the ground during flight
- 2017 Payload: cam system that extended blades to induce roll, counter-roll and act as drag control

EMPLOYMENT

American Iron and Steel Institute - Washington, DC

June 2017 – August 2017

Construction Intern

- Analyzed usage of Advanced High Strength Steels (AHSS) in the automotive industry
- Extrapolated potential uses of AHSS in the construction industry (CFS, dent resistant roofing)
- Compiled data on AHSS extracted from ASTM Standards and created a Microsoft Access Database
- As a result, construction industry members were able to find uses for automotive steels in construction

TJHSST Middle School Tech Institute - Fairfax, VA

July 2015 – August 2015

Student Teacher

- Taught MIT AppInventor to middle school students, highlighting the foundations of programming and the basics of critical thinking – as a result, students were able to build their own apps

RPI Office of the Student Living and Learning - Troy, NY

August 2017 – Present

Resident Assistant

- Coordinate efforts and schedules with fellow hall staff members – as a result residents were kept safe
- Proactively engage students to understand their needs and respond to them with appropriate references

RPI Office of the First Year Experience - Troy, NY

July 2016 – August 2016

Student Orientation Advisor

LEADERSHIP

Participate in weekly meetings with fellow officers to recap progress made from prior week and discuss further courses of action and potential options for the following week. Involves planning ahead and keeping in mind the club mission.

Rensselaer Rocket Society – Vice President

March 2018 - Present

Rensselaer Rocket Society – Secretary

May 2015 – March 2018

Material Advantage – Secretary

April 2017 – April 2018

Photography Club – Trip & Outings Coordinator

May 2015 – May 2017

WRPI Radio Station – PR Director

December 2015 – December 2016

ACTIVITIES

Rensselaer Orchestra; Intramural Soccer; Big Brothers Big Sisters; Alpha Gamma Delta; (and clubs listed above)