Rafia Kouser
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EDUCATION

Bachelor of Applied Science and Engineering, 3rd year 2015-Present
University of Toronto, Department of Materials Engineering
Engineering Business Minor In Progress
Relevant Elective Courses: Engineering Economics, Engineering Statistics and Numerical Methods, Foundations of Leadership, People Management and Organizational Behavior, Engineering Accounting, Markets and Competitive Strategy, Biomaterials, Basic Machining Course
Stream Courses: Design and Simulation of Materials Processing, Materials Manufacturing and Design Lab, Mechanical Behavior of Materials
Basic Machining Course 2017 January
George Brown College, Toronto
SHAD Alumni

TECHNICAL APPLICABLE SKILLS

- Application: Microsoft Office Application (Word, Excel, PowerPoint, Publisher)
- Analysis: Matlab, ImageJ
- Graphing: ANSYS, CES, WinWulff, Sketch Up, FactSage
- Microscopy Techniques: SEM, TEM, XPS, IR Spectroscopy & X-ray Diffractometer
- Programming: C, Java, Java Script
- WHMIS Certified
- CPR Certified

WORK EXPERIENCE

Research Assistant, University of Toronto Summer 2017

- Won the student summer research fellowship
- Worked at the Microfluidics Laboratory in the IBBME Sector
- Utilized the Scanning Electron Microscopy, Rheometer and Critical Point Drying to study and analyze the optimal concentration for fibrin stripes

Work Study Student, University of Toronto August 2017- Present

- Working with the Human resources and management department in the IBBME sector
- Organizing outreach program activities
- Providing optimal solutions to reduce outreach program finances

RELEVANT ENGINEERING PROJECTS

Team Leader, Communications Course, University of Toronto Fall 2016

- Led a group of five to research job prospects within the Materials discipline

- Researched and proposed the ideas of current as well as future job prospects

Team Member, Design Project, University of Toronto Winter 2015

- Collaborated with four other students to help Science Rendezvous come up with a creative science experiment, safe on ice
- Conducted several meetings with clients to clearly define scope of the project
- Read and understood a number of scholarly journal articles and books in order to obtain more information on experiments safe on ice
- Wrote formal Research for Proposals (RFDs), Functional Objective and Constraints (FOCs) and Final Proposals
- Designed the rocket propeller to be safe on ice
- Presented the results found in the analysis through a PowerPoint presentation to the professor and a group of students

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VOLUNTEER AND EXTRA-CURRICULAR ACTIVITIES

- Founder, University of Toronto Engineers' Poet Society (UTEPS) 2017-Present
    - To bridge the gap between arts and engineering
    - Application process for club recognition and funding
    - Organizing meetings with members and executive members
    - Publication in progress
- Co-Director, University of Toronto Galbraith Society Journal 2017-Present
    - Held interviews for editors and reviewers
    - Collaborating with Professors' for the Journal review process
- Organizing
- Advancement Member, Blue Sky Solar Racing U of T Design Team 2016-2017
- Participant of the SHAD Queens Summer Program 2014-2015
    - Selected from an International pool of applicants
    - Canada's international program in science, technology and entrepreneurship for high-achieving high school students
    - Recognized for innovation in STEM research fields
    - Project on Reducing Phantom Power, pitched to investors
- Mentor, Hi-Skule Mentorship U of T 2016-2017
- Vice president, Green Team of George S. Henry Academy 2013-2015

AWARDS

- President's Entrance Scholarship Award 2015-2016
- Applied Science Engineering Summer Research fellowship May 2017

SPORTS

- Cross-country- Ran in Toronto North XC Championships and came 19th out of 60 girls
- Varsity Soccer 2011-2014