HARPREET (HARRY) SINGH

hsingh3@ualberta.ca ualberta.ca/~hsingh3



UNIVERSITY OF ALBERTA ACADEMIC AND CO-OP STATUS

Mechanical Engineering, BSc, 2018 (Cooperative Program)

Cumulative Grade Point Average4.0/4.0Completed Academic Terms3 of 8Completed Co-op Work Terms1 of 5Length of Next Work term8 months

EDUCATIONAL ACHIEVEMENTS

Dean's Research Award, University of Alberta, 2014

Cenovus Energy Mechanical Engineering Scholarship, 2014

University of Alberta Academic Excellence Scholarship, 2013

Faculty of Engineering Academic Excellence Scholarship, 2013

Canadian Association of Petroleum Producers Academic Excellence Scholarship in Engineering, 2013

Alexander Rutherford Scholarship, 2011 - 2013

WORK EXPERIENCE

ALBERTA ENVIRONMENTAL MONITORING, EVALUATION AND REPORTING AGENCY January 2015 – present Science & Technology Engineering Co-op

- Reviewing and testing advanced monitoring technology and algorithms
- Developing and refining computer programs and algorithms to assure/improve data quality
- Gathered invaluable experience of working in an office environment and effectively collaborating with coworkers

UNIVERSITY OF ALBERTA, Dpt. of Electrical and Computer Engineering

May - December 2014

Research Assistant

- Designed and implemented a GUI for a fault detection mechanism using Matlab, incorporating features like live-plotting and post-editing of the collected dataset
- Developing a model that classifies objects based on multi-class SVM approach and graphs the data based on several factors
- Boosted my adaptability and problem solving skills by working on multiple projects, while collaborating with professors and graduate students

CAMPUS INTERCEPT, Edmonton, AB

September 2013 - April 2014

Microsoft Campus Ambassador

- · Facilitated workshops to demonstrate and promote new technologies developed by Microsoft
- Honed leadership skills via effective communication between Sales Managers and other Campus Ambassadors
- Developed effective time management and interpersonal skills by balancing a 15 hour weekly work schedule with full time studies

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COMPUTER EXPERIENCE

 Strong knowledge of and several years of programming experience in C++ and Matlab along with working knowledge of Java and Python

- Experienced in designing 3D model objects in Solidworks
- Proficient with Microsoft Office: Word, Excel, Outlook and PowerPoint

ADDITIONAL INFORMATION

Volunteer Activities

- Research Assistant, Department of Chemistry, University of Alberta, July August 2014
 - Assisted in synthesis and analysis of multiple rare-earth transition metal compounds
 - Determined the crystal structure of these compounds using various processes like X-ray diffraction and X-ray photoelectron spectroscopy
- Student teacher with SOS Children's Villages of India, 2009 2011
 - Taught underprivileged young children the basics of reading, writing, and mathematics

Clubs and Teams

- Member of the U of A Formula SAE club, 2013 present
 - Designed and assembled the body of a race car using carbon fiber while learning about distinguished processes like bagging, debulking, and breading
- Member of the Science Olympics team and Maker's Club, Strathcona High School, 2012-2013
 - Built and programmed small scale robots which performed distinguished tasks
 - Represented high school at Science Olympics, APEGA after several months of preparation
- Vice President of High School's Computer Club (Warp), 2011 2012
 - Represented high school and won awards at various provincial and national programming competitive events
 - Developed team leadership via negotiating with school authorities, sponsors and other school students, planning sub events, and mentoring tasks to other members

Achievements

- Position III, HackED 2015, University of Alberta, 2015
- Participant, First Year Programming Contest, University of Alberta, 2013
- Honorable Mention, Iverson Programming Contest, University of Alberta, 2013
- Participant, Science Olympics, APEGA, 2013
- Participant, Canadian Computing Competition, University Of Waterloo, 2013
- Position III, G@TEWAY '12, C++ Programming Competition, India, 2012
- School Wizkid Medal, National Cyber Olympiad, India, 2011

Other

- Have Class 5 driver's license with clean driver's abstract
- Have WHMIS and CSTS certification