SAN HA KIM

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Engineer, biologist, globetrotter

EDUCATION

UNIVERSITY OF TORONTO | M. Eng. in Mech. and Ind. Eng. w/ ELITE Certificate
Toronto, ON, Canada | Jan 2018 - Due Jun 2019
- Majored in Human Factors and Traffic Engineering; expected GPA of 3.88/4.0
- Relevant courses include:
    - Human Factors in Transportation (A+)
    - Infrastructure Planning (A)
    - Engineering for Psychologists (design; A+)

UNIVERSITY OF YORK | B. Sc. in Microbiol. & Biotech. w/ Year-in-Industry (Hons.)
York, UK | Oct 2012 - June 2016
- Majored in environmental bioremediation and sustainability

RELEVANT EXPERIENCES

HFAST LAB, UNIV. OF TORONTO | Graduate Research Associate
Toronto, ON, Canada | May 2018 - May 2019
- Investigated drivers' visual attention capabilities primarily to improve safety of vulnerable road users, and also for secondary purposes
- Studied different road designs and countermeasures using TRB and NHTSA databases to be applied to current study
- Programmed on-computer experiments from scratch through self-teaching and minimal external help using Python (2500+ lines)
- Performed preliminary experiments, and have collected and analysed data for inclusion in 57-page project report and streamlined the process to reduce experimentation time by 5 minutes

HUMAN FACTORS IN TRANSPORTATION COURSE AND PROJECT | Student; Project Head
Toronto, ON, Canada | Jan 2018 - Apr 2018
- Studied various limitations of human vision and cognition to understand how traffic systems are designed to minimise collision risk
- Participated in a mock court-case as advisor to expert witness to appreciate the role of human factors in the wider legal system
- Actively investigated different types of countermeasures and their effectiveness in minimising collision to understand wider range of traffic countermeasures

ENGINEERING FOR PSYCHOLOGISTS COURSE AND PROJECT | Student Researcher
Toronto, ON, Canada | May 2018 - Aug 2018
- Headed a project that investigated the limitations of human visual attention while driving to improve cyclist and pedestrian safety
- Explored the limitations of the human mind to understand how to design products that accommodate or leverage the limitations
- Learned about design principles and life cycles of products

INFRASTRUCTURE PLANNING COURSE PROJECT | Project Leader
Toronto, ON, Canada | Jan 2018 - Apr 2018
- Studied the first principles of infrastructure planning, such as resilience design, risk identification, risk management and policy development
- Directed the research and plan of the infrastructure strategic plan by tackling the natural hazards as a biologist
- Research based on current policy framework (such as fire management and land management requirements), as well as technical requirements to develop the plan
- Submitted 25-year strategic plan to the client with positive feedback and grade of A-

OTHER EXPERIENCES

AUCKLAND TRANSPORT | Customer Service Rep.

Auckland, NZ | Oct 2017 - Dec 2017

- Worked in teams between 2-20 to provide customer service to travellers and commuters
- Actively listened to average of 50 customers per day to help solve their commuting issues
- Promoted regional attractions and events to increase revenue by 5 percent
- Fluent in English and Korean; accommodated different customers to their necessities for best communication and experience

INNOVATION HUB, UNIV. OF TORONTO | Volunteer Research Associate

Toronto, ON, Canada | Sep 2018 - Mar 2019

- Partnered with 6 other members to streamline professional development network of UoT staff members with great feedback from the client
- Aided and consulted University's student support unit to develop and present recommended courses of action with positive reaction from the students and staff
- Organised and directed group interviews of 30 University staff members with group members
- Analysed over 1 hr of qualitative data to present to client, who gave great positive feedback and will take the recommended actions for next academic year

CENTRE FOR INTERNATIONAL EXPERIENCE | Volunteer Facilitator

Toronto, ON, Canada | Sep 2018 - Apr 2019

- Facilitated groups of international students in English conversation class
- Partnered with another volunteer to coordinate conversation class sessions with great feedback from participants
- Coordinated with senior manager to provide feedback and suggest further improvement for future sessions

ADDITIONAL SKILLS

Technical Skills

- 7+ years of experience in MS Word, PowerPoint and Excel
- 3 years of experience in IBM SPSS
- Self-taught Python 3.7
- Currently self-teaching LaTex, Python and JavaScript, and other fundamental engineering physics and mathematics

Teamwork and Interpersonal Skills

- Collaborated with differently sized teams, ranging from 3-20+ members to tackle different projects and have received high grades or positive feedback from clients
- Headed projects as leader and received orders as team member from leader; able to work in different team dynamics for most efficient team dynamic
- Communicated ideas professionally to design and conduct group interview according to my plan
- Understand and appreciate the necessity to compromise when working as a team for most efficient team dynamics

Languages

- Native-level English skills
- Fluent in Korean

Adaptability and Flexibility

- Highly adaptable and quick to learn any new skills or software
- Challenged self and took on new field of study in a new country
- Adapted abstract thinking to conceptualise and propose action plans that will be adapted in the next academic year at the University of Toronto's First Nation's House