

# 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 - Jun 2019

- Focused on Human Factors and traffic studies; expected GPA of 3.88/4.0
- Relevant courses include:
  - Human Factors in Transportation (A+)
  - Infrastructure Planning (A)
  - Engineering for Psychologists (A+)

#### **UNIVERSITY OF YORK | B. SC. IN MICROBIOL. & BIOTECH. W/ YEAR-IN-INDUSTRY (HONS.)**

York, UK | Oct 2012 - June 2016

### RELEVANT EXPERIENCES

#### **HUMAN FACTORS IN TRANSPORTATION COURSE AND PROJECT | STUDENT; PROJECT HEAD**

Toronto, ON, Canada | Jan 2018 - Apr 2018

- Performed site examinations for road user safety, road design and human factors analysis of a mock "crash site" to build expert witness testimony as part of course project
- Discussed and collaborated with 5 team members effectively to plan the mock expert witness testimony
- Analysed various CMFs using CMF Clearinghouse and other online resources to prepare report and explore various countermeasures against the "dilemma zone"

#### **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
- Extensively studied the limits of human mind to design experiments and prepare report for publication
- Programmed on-computer experiments from scratch through self-teaching and minimal external help using Python (2500+ lines)
- Collected and analysed preliminary data to write 57-page report and spearhead main study
- Streamlined experiment procedure and process to reduce experimentation time by 12 minutes

#### **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
- Collaborated with 3 other members to present strategic plan over 25-year risk horizon
- 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

# ADDITIONAL SKILLS

## Technical Skills

- 7+ years of experience in MS Word, PowerPoint and Excel
  - Highly experienced in writing reports of various forms
  - Very comfortable with public speaking and presentations
- 3 years of experience in IBM SPSS (GUI)
- 1 year of Python (PsychoPy, scipy, numpy etc.)

## 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

## Adaptability and Flexibility

- Fast learner to quickly pick up new information and knowledge
- Highly adaptable and quick to learn any new skills or software
- Challenged self and took on new field of study in a new country
- Excellent abstract thinking to apply what is known to other, less known areas

## Languages

- Native-level English skills
- Fluent in Korean

# 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

15 May 2019

To whom it may concern:

I am writing this letter as my part of my application for **Transportation Engineer for 30 Forensic Engineering (30FE) in Toronto**. I am applying for this position because I know that my skills, experience and career goal will be a perfect fit for this company.

I am attracted to this role because during my study of Master of Engineering at the University of Toronto, I extensively studied the limitations of the human mind and body and I wish to apply what I have learned to real life application. Through my independent research into your company, I have concluded that this role and 30FE is the perfect fit for my personal career goals, interests and skillsets.

As my history shows, I changed my career path from biology to engineering, from UK to Canada; I have also lived across the globe (e.g. Hong Kong, New Zealand, UK), and I have developed a great deal of soft skills, such as interpersonal skills, analytical and problem solving skills by having lived across the globe. I believe 30FE can benefit from the global perspectives that I can bring.

Furthermore, I am highly flexible, versatile and adaptable through my experience in variety of fields and countries. So, I am quick to learn new information and pick up new skills, particularly technical for my high fluid intelligence.

Moreover, I thrive under high pressure environments, and can deliver work with no compromise in quality when working in highly demanding situations. I feel much more accomplished when working and finishing in demanding conditions.

I would love nothing more than a chance to work for 30FE, so please contact me at **sanhakim1993@gmail.com (email or Skype)** if you have any questions or comments, or to schedule an interview.

Thank you for your time and consideration,

**San Ha Kim**