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Personal Statement

A highly motivated researcher at Yonsei University interested in analyzing people using wearable devices. My research mainly focuses on using motion and physiological sensors embedded in wearable devices to examine people in various context. During my master's course, I have acquired skills related to wearable technology and sensor data analysis using machine learning. Looking to secure a research position related to the sensor technology, where I can contribute immediately and further my understanding of the field.

Education

Department of Computer Science, Yonsei University — Seoul, Rep. of Korea Expected: Feb 2018

- Masters in Science Computer Science
 - Thesis: (TBD)
 - Advisor: Kyoungwoo Lee (Dependable Computing Lab)

Sauder School of Business, The University of British Columbia — Vancouver, BC, Canada 2011 – 2015 - Bachelor of Commerce — Combined Major in Business and Computer Science (BUCS)

• BUCS integrates soft skills of business to the technical field of computer science

Publication

S.W. Kye, J.H. Moon, J.I. Lee, I.H. Choi, D.M. Cheon, and K.W. Lee, "Multimodal Data Collection Framework for Mental Stress Monitoring", ACM Int' Joint Conference on Pervasive and Ubiquitous Computing: Adjunct (UbiComp), 2017

S.W. Kye, J.H. Moon, S.Y. Lee, T.H. Lee, Y.S. Lee, S.-C. Shin, and K.W. Lee, "Detecting Periodic Limb Movements in Sleep using Motion Sensor Embedded Wearable Band", IEEE Int' Conference On Systems, Man, and Cybernetics (SMC), 2017

S.Y. Lee, J.H. Moon, T.H. Lee, **S.W. Kye**, Y.S. Lee, S.-C. Shin, and K.W. Lee, "Sleep Stage Classification for Managing Nocturnal Enuresis through Effective Configuration", IEEE Int' Conference On Systems, Man, and Cybernetics (SMC), 2017

S.-C. Shin, J.H. Moon, **S.W. Kye**, K.W. Lee, Y.S. Lee, and H.-G. Kang, "Continuous Bladder Volume Monitoring System for Wearable Applications", IEEE Int' Conference On Engineering in Medicine and Biology Society (EMBC), 2017

J.H. Moon, S.Y. Lee, T.H. Lee, **S.W. Kye**, Y.S. Lee, S.-C. Shin, and K.W. Lee, "A Prospective Study of Examining Physiological Signals for Estimating Occurrence of Nocturnal Enuresis", IEEE Int' Conference On Engineering in Medicine and Biology Society (EMBC), 2017

Work Experience

Yonsei University — Seoul, Republic of Korea

Sept 2015 – Present

- Research Assistant
 - Proposed a multimodal data collection framework for mental stress monitoring using 3 commercial wearable devices and developed the data visualization software using C#
 - Developed the periodic limb movement in sleep (PLMS) detection band using a coin-sized motion sensor under Android platform and achieved the accuracy of 96% in classifying PLMS

Bookcube Networks — Seoul, Republic of Korea

June $2014 - Aug \ 2014$

- Summer Internship
 - Created a test environment for migration from Microsoft Exchange Server 2003 to Microsoft Exchange Server 2013 and wrote a manual of protocols to be performed during the actual migration
 - Provided technical assistance regarding computers and networking for other employee

- Local coordinator
 - Translated, interviewed and gave specific instructions to a documentary filming crew of 6 people from South Korea on filming sites for 20 days
 - Arranged filming schedule and constantly revised meeting location and time with 10 different site managers through extensive email exchanges and phone calls

Mappers — Seoul, Republic of Korea

May 2013 - Aug 2013

- Summer Internship
 - Improved product algorithm and the code for navigation for both smartphones and cars by comparing the software to its competitors
 - Organized and performed tests on the final products to look for software bugs and malfunction

Technical Skills

Programming Languages

• Java (Android), C++, HTML, Javascript, SQL

Human Language

• Korean - Mother Tongue, English - Fluent (Both in writing and speaking)

Leadership Experience

UKHAN UBC Catholic Korean Student Association — Vancouver, BC, Canada — May 2014 – April 2015 - President

- Led team consists of 9 people in recruiting other members and organizing weekly various activities consists of social events, volunteering works and religious events throughout the school year
- Organized a ski trip to Whistler for 44 members and managed various social events

UKHAN UBC Catholic Korean Student Association — Vancouver, BC, Canada — May 2013 – April 2014 - Media Coordinator

- Designed posters and created promotional videos for the weakly gatherings using Abode Photoshop
- Took pictures and filmed video during various social events

Strategy & Capital Market(SCM) — Vancouver, BC, Canada

Aug 2013 – April 2014

- Founder/Leader
 - Formed a group of 10 members where the team had weekly meeting to analyze business case studies in a limited time and discuss about different approaches to solve the case
 - Prepared discussion topics for a case bought from various websites, such as Harvard Business Review, previous to weekly meetings

Korean UBC Basketball Association — Vancouver, BC, Canada

Sept 2012 – May 2014

- Co-founder/Co-captain
 - Created a community of 54 students in 2 weeks through various channels of advertisement and participated in a school recreational league
 - Initiated numerous social and interesting events, such as casual dinner and 3 on 3 basketball tournaments in which 14 teams participated

 ${\rm UBC-SFU}$ Investment Banking Study Group (IBSG) — Vancouver, BC, Canada – Sept2011 – May 2013 - Analyst

- Actively engaged in learning different principles of finance and investment banking in weekly 4-hour meetings and facilitating regular communication with members
- Produced 6 discount cash flow models and one company valuation report

Reference

References available upon request