SEOK LEE

Quality level-headed leadership:

- 14 years experience in engineering leadership, technical research, business development between 3 companies
- · Comfortable and confident in team dynamics and leadership
- Strength in support and directive driven within teams
- Able to successfully navigate uncertain and unplanned events to find effective and efficient resolution
- Experience in building correct teams for different projects
- Able to determine strengths and weaknesses to correctly guarantee advancement through projects

Understanding in diverse office settings:

- Experience in diverse office settings; various countries (6.5 years in European assignment)
- Adaptable to different expectations within different companies
- Focused on growth within companies for myself and coworkers to advance the company itself
- Heightened interpersonal skills

Passion for Data Analysis and Engineering:

- Completed Masters in Engineering and MBA in Business Analytics, Globalization
- Knowledgeable in: mathematical dynamic modeling, controls design, plant modeling, data analysis, virtual 3D simulation (Unreal), model based design, and capable of coding (R, MATLAB, C++,C, Python).
- Eager to enhance my knowledge and understanding in various areas
- Quick to learn new systems
- Passion for solving complex problem Looking for growing together with the company:
- · Wanting a partnership with a company I can grow with
- Willing to relocate for position if the company is the correct fit

* EDUCATION 10/2017-08/2021 * University of Illinois MBA-Financial Mngt|Value chain Mngt|Managerial Economics&Business Analysis|Strategic leadership & Mngt|Business Analytics|Global Challenge in Business

01/2005-04/2010 University of Michigan

M.S. in Mechanical Engineering
• Dearborn, MI

1998-2005 **Korea Aerospace University**Bsc. in Mechanical Engineering

♀ Korea

O Urbana, IL



CONTACT INFO

■ seokleeuk@gmail.com

https://github.com/seokleeus

J +1 734-890-6340

TOOLS

Data analytics: R | Python | MATLAB

Engineering: Simulink | CarSIM |
AMESim | Targetlink | CAN | C++ |
Tensorflow | OpenCV | Keras |
Unreal

LICENSE

Professional Engineer(Mechanical Eng-Thermal & Fluid, MI license # 6201066645)

Udacidty Self driving car #5R7RH56H

INDUSTRY EXPERIENCE

06/2021present

Canoo

Senior Technical Team Lead - Electronics

Torrance, CA, USA

- Upon graduating MBA, I wanted to explore a broader spectrum of vehicle integration work. I am interested in how a vehicle is designed, developed, tested, and launched. How a company constantly please consumers' eyes and pocket, but another fails to meet consumers' appetite.
- I also wanted to experience how a new company becomes an incumbent. Therefore, I chose to make a transition to a start-up.
- The day to day job includes, but is not limited to conducting engineering Electronic requirement definition for future products- benchmark, initial market research, pinpoint technology gap, share insight, and set the roadmap for corporate ADAS, On Board Charger (OBC), telematics, V2X and infotainment strategy

04/2019-06/2021

Ford Motor Company

Research Engineer- Driving Assist Technology

Operation Dearborn, MI, USA

- I developed interface to take ray tracing radar signals into vector transform to feed to the s/w for driving simulation. Later, I developed 3d scenes in urban parking using 3d gaming engine (aka Unreal).
- In the end, I integrated 3d scenes and developed a sensor interface to test out certain traffic scenarios (highway following) to test out various ECU controls s/w codes in vehicle system level.
- Before exit, I do demonstrate the s/w testing framework to other engineers for training purpose.

11/2015-04/2019

Ford Motor Company

Autonomous Chassis Controls Engineer

Operation Dearborn, MI, USA

- I tested in-house developed chassis controls s/w against requirement using MATLAB/Simulink tool. Later, I refactored the developed s/w to conform to ISO 26262 standard. Later, for testing purpose, I developed the simplified, but approximated mathematical models to run s/w code under real-time simulation framework.
- In the end, I managed to integrate refactored s/w into a driving simulation environment to conduct repetitive testing.
- $\boldsymbol{\cdot}$ This entire work received 3 Ford internal awards which led me to focus on more simulation work for my next move.

04/2014-11/2015

Cummins Engine Company

Diagnostic Team Leader

Oclumbus, IN, USA

- I led a team of calibration engineers. The calibration contents are related to thermal management for controlling the catalytic events. I always looked for how to make our team better and thrive spontaneously by demonstrating leadership by example. I let team members taste different management styles - servant management.
- I provided training, coordinated vehicle/ engine testing works to meet the Euro environmental regulatory requirement while I conducted data mining, data analysis to check the calibration performance to approve quality contents in the field operation.

07/2011-04/2014

Cummins Engine Company

Technical Specialist

Open Darlington, UK

- I worked in an international site in the UK as an expat after a Dutch assignment. I did diagnostics development work including s/w validation at vehicle level and calibration contents development to meet European emission regulations. The work also involved data mining and analysis of the large fleet data set.
- I led a team of engineers to maintain Hardware in the Loop (HiL) testing equipment. Before exit, I demonstrated the capability and its usefulness and readiness to validate s/w before conducting field or vehicle testing.

10/2007-07/2011

Cummins Engine Company

Senior Control Engineer

• Eindhoven, the Netherlands

- I started as a controls engineer which handled electronics integration work with an emphasis on harness design, ECU validation, and CAN (Controller Area Network) signal definition.
- I spent a handful of time for s/w validation and testing at HiL (Hardware in the Look). This work was carried out at an international site, a Dutch truck company (DAF trucks, NV). I adapted cultural differences quickly while embracing and valuing Dutch culture to harmonize between two entities.

ACADEMIC RESEARCH EXPERIENCE

2005-2010

Graduate Research Assistant

University of Michigan

O Dearborn, MI

- I came to the US for study abroad because I won full tuition supported research assistant scholarship to work on mathematical modeling and simulation in automotive application.
- · Although the school is a regional school and relatively unknown to public, I did my best to produce a fruitful outcome.
- In the end, I was able to publish 2 papers and 1 technical report before graduation.

PUBLICATIONS

2008

Investigation of Sliding-Surface Design on the Performance of Sliding Mode Controller in Antilock Braking Systems

IEEE Vehicular Technology, Volume 57 issue 2 Taehyun Shim, Sehyun Chang, **Seok Lee**

2007

Technical report- Brake design and modeling of Low Mass Vehicle

IAVS (Institute of Advance Vehicle System), University of Michigan-Dearborn

Seok Lee

2006

Development of a Brake System for Lightweight Vehicle

IMECE2006-15437, pp. 229-238; 10 pages **Seok Lee**, Taehyun Shim, Byung-Kwan Cho