

Seok Lee

seokleeuk@gmail.com

<https://seokleeus.github.io/archive/>

+1 (734) 890-6340

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Passion for business and engineering data analytics:

- Completed Masters in Engineering for mathematical modeling and MBA in business data an
- 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 in both business and engineering
- Passion for solving complex problem in data driven approach

Enthusiastic on building organization:

- 14 years experience including engineering, technical research, leading technical team
- Comfortable and confident in team dynamics by executing humble minded leadership
- Able to successfully navigate uncertain and unplanned events to find effective and efficient resolution
- Able to determine strengths and weaknesses to correctly guarantee advancement through projects

Understanding in diverse office settings and global expansion:

- Experience in diverse office settings; various countries (6.5 years in European assignment)
- Understanding of global expansion and corporate strategy/ organization setting

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With 17 years experience of engineering and academic research, I am comfortable and confident in detailed oriented engineering work as well as business planning including organization, global expansion, and corporate finance. I also have a complex and engaging presence when leading a team from the starting point of a project and following through to see the end. I make sure to be supportive and directive driven with groups that I lead, this promotes bonding as a team while also maintaining humbleness and servant as a leader. I am comfortable navigating uncertain and unplanned events to find the most effective and efficient corresponding path to take to manage the completion, seeing the team reach their goal. I pride myself in being able to determine both strengths and weaknesses in individuals to ensure that each aspect of the different projects I have led have the proper team working on them. I aim to see growth in each individual to guarantee the advancement of not only the company, but the employee as well. This guarantees that the company is moving forward instead of falling behind.

During my employment history, I have had the advantage of experiencing various company structures through multiple countries. This has created me to be both adaptable and knowledgeable in various corporate organizations and corporate expansion in foreign territory.. I have seen how a sound minded leadership has promoted growth and seen the result with the success in each country through the companies' advancement. Because of this, I have been able to learn about different roles and positions in the companies, implement my knowledge to enhance self-growth, growth of coworkers, and the identities I have worked for. This has increased my experience in the diversity of different business aspects of the ever growing engineering world. I have been able to enhance my interpersonal skills, while also heightening my knowledge of the changing programs that are needed to succeed in this section of the world.

Due to the education in both engineering and business administration, I have been able to increase my knowledge in multiple programs used in data analysis and engineering. My knowledge goes beyond mathematical modeling, data analysis, virtual simulation, design estimation, model based approaches, and machine learning coding. I am always eager to enhance my knowledge and learn any new system that I would need in order to properly complete projects, or create new ways of utilizing programs to fit the needs of the company's goals. I have a strong passion for solving complex problems that most find daunting, and I utilize this not only to expand my position, but to enhance my knowledge and encourage constant self-growth.

I am currently looking to find a right fit with a company in order to mutually grow and expand with. My overall aim is to create a relationship with a company that I can complement with and assist in reaching new levels of success.

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Skills

- Enthusiastic on understanding business model and suggesting corporate strategy/product roadmap
 - Passion for solving complex problems
 - Diverse experience with multiple system and disciplines
 - International corporate diversity and understanding of corporate organization.expansion
 - Skilled in coding and visualizing code defects
 - Engineering and business educated to enhance both areas of expertise
 - Experienced in processes of employee recruitment
 - Knowledge in: mathematical modeling for systems, data analytic driven decision making, virtual simulation to mimic real world situations, design estimation to predict nonlinearity, model based approaches to develop readable and simplified s/w code, state estimation, machine learning coding, vision sensing for pattern recognition, and path following
 - Skilled in various programming:
 - Data Analytics: R | Python | MATLAB
 - Engineering: Simulink | CarSIM | AMESim | Targetlink | CAN | C++ | Tensorflow | OpenCV | Keras | Unreal
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Employment

06/2021	Canoo Senior Technical Team Lead - Electronics	Torrance, CA
11/2015-06/2021	Ford Motor Company ADAS Controls Engineer Research Engineer - ADAS	Dearborn, MI
10/2007-11/2015	Cummins Engine Company Controls Engineer Senior Control Engineer Technical Specialist Team Leader-diagnostics, data analysis	Columbus, IN Eindhoven, Netherlands Darlington, United Kingdom Columbus, IN
01/2005-10/2007	University of Michigan Graduate Research Assistant	Dearborn, MI

Contact Info

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Education

2017-2021 **University of Illinois**

MBA - Business Analytics | Global Challenges | Financial Mngt | Value chain Mngt | Strategic Leadership | Managerial Economics

2005-2010 **University of Michigan**

Msc. in Mechanical Engineering

1998-2005 **Korea Aerospace University**

Bsc. in Mechanical Engineering

Publications

2008 [Investigation of Sliding Mode Controller in Antilock Braking Systems](#)

Taehyun Shim, Sehyun Chang, *Seok Lee*

IEEE Vehicular Technology, Volume 57, issue 2

2007 [Technical report - Brake design and modeling of Low Mass Vehicle](#)

Seok Lee

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

2006 [Development of a Brake System for Lightweight Vehicle](#)

Seok Lee, Taehyun Shim, Byung-Kwan Cho

IMECE2006-15437, pp. 229-238; 10 pages

Certification & License

Professional Engineer (Mechanical Eng-Thermal & Fluid, MI #620106645)

[Udacity Self-driving car nano degree](#)

[Introduction to MATLAB](#)

[MATLAB associate](#)

[Introduction to Portfolio analysis in R](#)

[Introduction to R for finance](#)

[Intermediate R for finance](#)