

JOO HEON

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AREAS OF INTEREST

Mechatronics Engineering, Dynamics & Controls, Measurement & Analysis

EDUCATION

CHUNGBUK NATIONAL UNIVERSITY, Cheongju, Korea **03/1996-08/2004**
Bachelor of Science in Engineering in Precision Mechanical Engineering, School of Mechanical Engineering, College of Engineering (GPA 3.27/4.5)

- Mechanics:** Dynamics, Engineering Materials, Kinematics, Mechanics of Materials I/II, Manufacturing Process I/II, Precision Mechanical Engineering Experiments I/II, Mechanical Vibrations
- Thermo-fluid:** Thermo Dynamics I/II, Fluid Mechanics I/II, Internal Combustion Engine, Fluid Power Engineering
- Computing:** Calculus II, Engineering Mathematics I/II, Computer Programming, Computer Aided Drawing, Machine Design I/II
- Robotics:** Electrical and Electronic Engineering, Mechatronics

WORK EXPERIENCE

FEV KOREA LTD., Seongnam, Korea **02/2014-Present**
Resident Engineer, Product Engineering Team

Resident engineer for Renault Samsung Motors working at RSM R&D Center

- Current products life cycle management
- Product diversity management according to engineering changes
- New project cooperation with technical points like design check, 3D, 2D check

WABCO KOREA LTD., Seoul, Korea **07/2005-01/2014**
System Application Engineer, Product Engineering Team

System application engineer for electronically controlled braking system

- Hydraulic/Pneumatic ABS (anti-lock braking system) for light duty trucks and buses
- Pneumatic EBS (electronically controlled braking system) for medium and heavy duty trucks and buses
- ESC (electronic stability control) based on pneumatic ABS and EBS for medium and heavy duty trucks

SHINHAN DIAMOND CORPORATION, Incheon, Korea **06/2004-03/2005**
Team Member, R&D Team

Team member for research and development of cutting tools for stones

- Research on new manufacturing processes using diamonds for industrial use
- Research on market status and analysis of competitor's products
- Design of cutting tools focusing on performance and samples manufacture

PROJECT EXPERIENCE

New Rims and Tires Development Project (02/2014-Present)

- Belonging Company: FEV Korea Ltd.
- Customer Company: Renault Samsung Motors
- Project Target: Unique designed rim and good performance tire development
- Members: Renault Samsung R&D staff
- My Role: As resident engineer, assist Renault Samsung staff to achieve final goals

Pneumatic EBS for Hybrid City Bus Application Project (08/2012-01/2014)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: Hyundai Motor Company, Commercial Vehicles Enterprise
- Project Target: New EBS for hybrid vehicle validation and release in vehicle level
- Members: Hyundai R&D staff, WABCO German engineers
- My Role: Overall project leadership and technical issues management

ESC Based on Pneumatic ABS and EBS Application Project (01/2011-01/2014)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: Hyundai Motor Company, Commercial Vehicles Enterprise
- Project Target: ESC based on ABS and EBS validation and release in vehicle level for series production
- Members: Hyundai R&D staff, WABCO German engineers
- My Role: Overall project leading and technical issues management

Pneumatic ABS and EBS Application Project III (01/2010-12/2010)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: Hyundai Motor Company, Commercial Vehicles Enterprise
- Project Target: ABS and EBS validation for HMC Euro 5 engine and final release for series production
- Members: Hyundai R&D staff
- My Role: Overall project leadership and technical issues management

Pneumatic ABS and EBS Application Project II (01/2009-03/2010)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: TaTa-Daewoo Commercial Vehicle Company
- Project Target: ABS and EBS validation for TDCV Trucks and final release for series production
- Members: TRCV R&D staff
- My Role: Overall project leadership and technical issues management

HMC Advanced Development Project for ESC function validation (05/2008-11/2010)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: Hyundai Motor Company, Commercial Vehicles Enterprise
- Project Target: ESC function validation and feasibility check for heavy duty truck and tractor
- Members: Hyundai R&D staff, WABCO German engineer
- My Role: Overall project leadership and technical issues management

Pneumatic ABS and EBS Application Project I (03/2007-07/2008)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: Hyundai Motor Company, Commercial Vehicles Enterprise
- Project Target: ABS and EBS validation for HMC Euro 4 engine and final release for series production
- Members: Hyundai R&D staff, WABCO German engineer
- My Role: Overall project leadership and technical issues management

Hydraulic ABS Application Project (07/2005-03/2007)

- Belonging Company: WABCO Korea Ltd.
- Customer Company: Hyundai Motor Company, Commercial Vehicles Enterprise
- Project Target: Hydraulic ABS validation and final release in vehicle level for series production
- Members: Hyundai R&D staff, WABCO German engineer
- My Role: Overall project leadership and technical issues management

PRESENTATION & WORKSHOPS

INTENSIVE TRAINING PROGRAM, Hanover, Germany

03/2013

- To drive trucks with ESC maneuvers, I attended an intensive training program conducted by WABCO Germany for two months.

WABCO SUMMER WORKSHOP, Hanover, Germany

06/2012

- HMC and WABCO conducted this summer workshop on ESC function validation in vehicle level, and conducting ESC performance checks on various vehicle maneuvers.
- The target vehicle for the project on HMC advanced development for ESC function validation was a medium duty truck (a rigid truck weighing five tons).
- I attended the workshop with HMC engineers and coordinate them as a WABCO Korea representative.
- Main activities: Presentation of ESC maneuvers, test track introduction, and testing assistance

INTENSIVE TRAINING PROGRAM, Hanover, Germany

09/2011

- To learn about the state-of-art technology and product, I attended an intensive training program conducted by WABCO Germany for three months.

WABCO WINTER WORKSHOP, Rovaniemi, Finland

02/2011

- To achieve ESC function validation in vehicle level, HMC and WABCO conducted a winter workshop about ESC performance checks on snow and ice load.
- For the project on HMC advanced development for ESC function validation, the target vehicle was a medium duty truck (a rigid truck weighing five tons).
- I attended the workshop with HMC engineers and coordinated them as a WABCO Korea representative.
- Main activities: Presentation of ESC function and WABCO products and vehicle testing assistance

WABCO SUMMER WORKSHOP, Hanover, Germany

06/2009

- To achieve ESC function validation in vehicle level, HMC and WABCO conducted a summer workshop on ESC performance checks on various vehicle maneuvers.
- For the project of HMC advanced development for ESC function validation the target vehicle was a tractor + trailer combination.
- I attended the workshop with HMC engineers and coordinated them as a WABCO Korea representative.
- Main activities: Presentation of ESC maneuvers, test track introduction, and testing assistance

WABCO WINTER WORKSHOP, Rovaniemi, Finland

02/2008

- To achieve ESC function validation in vehicle level, HMC and WABCO conducted a winter workshop on ESC performance checks on snow and ice load.
- For the project on HMC advanced development for ESC function validation the target vehicle was a tractor + trailer combination
- I attended the workshop with HMC engineers and coordinated them as a WABCO Korea representative.
- Main activities: Presentation of ESC functions and WABCO products and vehicle testing assistance

AWARDS

Excellent Staff of the Year Award at WABCO Korea
Excellent Staff of the Year Award at WABCO Korea

12/2011
12/2008

MILITARY SERVICE

Dongbu Police Station, Cheongju, Chungbuk, Korea
Auxiliary police

09/1997-11/1999

- As an auxiliary policeman in the Security and Patrol unit, I carried out my military service duty for 26 months.

ACTIVITIES

Study Abroad for English Language

09/2002-10/2003

- Anglo Continental Institute at Bournemouth, England
- Purpose: English skills improvement and international experience
- After studying, I moved London and accumulated some work experience at a sushi bar and pub.

Member, Arirang Cinema Research

04/1996-08/1997

- A club at Chungbuk National University
- Acted as a club member when I was a freshman and became the club leader
- Activities: Watched and discussed classical movies; planned and held an annual movie festival

SKILLS

- Project leadership and coordination (planning, scheduling, checking, and managing)
- Root Cause Analysis and Corrective Action Plan for Issue Management
- Vector CAN Analyzer Tool handling according to SAE J1939 standard
- Driver's License for Heavy Duty Trucks and Buses
- Computer Skills (Microsoft Office, novice in CATIA V5)

LANGUAGES & TRAVELS

- Fluent in Korean and proficient in English
- Traveled to England, Germany, Czech, Austria, Italy, France, and the U.S.
- Enjoy watching movies and sports events