

Woojin Park

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Summary

Mechanical design engineer who works effectively in a fast-paced and rapidly changing environment. Having high skills of taking coarse descriptions of issues and turning them into crisp problem definitions with actionable plans to work toward solutions. Enthusiastic for achievement and Working ongoing with other team-mate to keep the modules stable and reliable.

Speciality

- In depth understanding of vehicle driven system
- Expertise in creating and managing complex hardware-software systems
- System-oriented understanding of thermal, vehicle-level torque control, high voltage DC-link integration, efficiency optimization, and firmware integration for electric drives
- Strong communication and preference for working in teams

Skills

- Model development and data analysis in Matlab
- Proficiency in C++ software development
- Professional skills with CAD / CATIA V5

Academic projects

- **Electric Motor Controlling System** (Nov 2015 – Dec 2015)
 - Research motor driving with using Digital Signal Processor(DSP) and Actuator system for vehicle (EPS, XBW), Design prototype EMB controller.
- **Intelligence Vehicle Research** (Sep 2015 – Nov 2015)
 - Navigation & Control of Autonomous Vehicle Systems – Analyzation autonomous robot and drones, realization of Simultaneous Localization and Mapping from automotive path making vehicle system.
 - NMPC Based Decision Making Method - Research Decision Making Method for Collision Avoidance, simulate path prediction of the driver vehicle and analyze total sum of predicted distance error.
- **Development technology of vehicle horn system with Vehicle to Vehicle(V2V)** (Apr 2015 – Oct 2015)
 - Research and decide problems of current vehicle horn system and developing with using futuristic technology V2V
 - Idea prize at Kookmin University and Hanyang University

Experience

- Internship at **Ziontech** – San Jose, CA (Jan 2016 – Feb 2016)
- Researching and Learning programming languages (Python, JavaScript, C++) and the principles of object-oriented development
- Gained ability to effective collaboration with teammates- front-end developers and web developers

Languages

- Korean – Native speaker
- English – Fluent
- Chinese – Capable of communication

Education

Kookmin University – Seoul, Korea (Jan. 2017)

B.S of Automobile Engineering

Additional Information

Military service – Wonju, Korea (Feb. 2013 – Nov. 2014)