Sangjune Park

Undergraduate Student
Seoul National University of Science and Technology
Intellectual Manufacturing System Lab
232, Gongneung-ro, Nowon-gu, Seoul, Republic of Korea
Email: psj9156@gmail.com
Phone: +82) 010-4513-8201
Homepage: https://jjuke.github.io/JJukePortfolio.github.io/
Github: https://github.com/JJukE

PERSONAL DATA

- Birth: 4th August, 1996, in Republic of Korea
- Nationality: Korean
- Language: First language Korean, Fluent in English

EDUCATION

Mar. 2015 ~ Present	**Seoul National University of Science and Technology** Department of ICT Artificial Intelligence Program *Bachelor of ICT Artificial Intelligence Program* *(Present GPA 4.01/4.5)*	Seoul, Korea
Mar. 2015 ~ Present	**Seoul National University of Science and Technology** Department of Mechanical System Design Engineering *Bachelor of Mechanical System Design Engineering* *(Present GPA 4.01/4.5)*	Seoul, Korea

RESEARCH INTERESTS

- **Machine Learning, Deep Learning, Computer Vision**
  - ✓ Tensorflow, Pytorch, OpenCV
  - ✓ Object Detection, Semantic Segmentation

- **Reinforcement Learning**
  - ✓ DQN, Soft Actor Critic, Meta RL, Inverse RL
  - ✓ End-to-end Autonomous Driving

PUBLICATIONS (DOMESTIC)

1. **박상준**, 김용호, 김제구, 김인준, 강지완, 맹희영, "마이크로툴 공구연삭기용 지지대의 열변형을 고려한 최적 설계 입증", 한국생산제조학회, (2021)
2. **박상준**, 김용호, 김제구, 김인준, 강지완, 맹희영, "마이크로툴 공구연삭기용 지지대의 정적변형을 고려한 최적 설계 방안", 한국생산제조학회, (2021)

DOMESTIC CONFERENCES

1. **박상준**, 김용호, 김제구, 김인준, 강지완, 맹희영, "한국생산제조학회", 한국생산제조학회, Jeju, Korea (Dec. 2021) - Poster

WORK & RESEARCH EXPERIENCES

- **Research Student** at Intellectual Manufacturing System Laboratory, Seoul National University of Science and Technology, Korea — Jul. 2019 ~ Present
  - ✓ CAD
  - ✓ MATLAB, Python, C# Programming
  - ✓ Data Mining
  - ✓ VR/AR Contents Development

- **Research Assistant** at PNP Engineering Inc., Korea — Dec. 2017 ~ Mar. 2018
  - ✓ Settings for Experiment of Chassis Parts of Car

PROJECTS

- Spindle Appraisal Project, Intellectual Manufacturing System Laboratory, Korea
  - ✓ *Analysis of High-speed Spindle Motor Failure Factors with Big Data* — Sep. 2021 ~ Present
- Realistic AR Interactive Contents for Smart Factory, Intellectual Manufacturing System Laboratory, Korea
  - ✓ *Development of VR/AR Interactive Platform* — Jan. 2021 ~ Present
- Analysis of High-speed Spindle Motor Failure Factors with Big Data, Term Project in a Course (Big Data Analysis), Korea
  - ✓ *FFT, Data Preprocessing, K-means Clustering* — Sep. 2021 ~ Dec. 2021
- Development of Workpiece Clamping Tool for CNC Tool Grinding Machine for Microtool Machining, Capstone Design, Korea
  - ✓ *Optimal Design and Proof, Development of Precision Program and VR Contents* — Jan. 2021 ~ Nov. 2021
- Realtime Gesture Recognition Program, Term Project in a Course (Deep Learning), Korea
  - ✓ *C# Programming, Serial Communication, Circuit Configuration* — Mar. 2021 ~ Jun. 2021
- Circle Breeding Game Development, Term Project in a Course (Micro Controller), Korea
  - ✓ *C# Programming, Serial Communication, Circuit Configuration* — Mar. 2020 ~ Jun. 2020
- Optimal Route Tracking for Motorcycles using Smartphone Sensors, Term Project in a Course (Engineering Programming), Korea
  - ✓ *MATLAB Programming, GUI Development* — Sep. 2019 ~ Dec. 2019

TEACHING & ADVISING EXPERIENCES

- Department of Mechanical System Design Engineering, Seoul National University of Science and Technology, Korea
  - ✓ *Capstone Design for Mechanical System Design Engineering* (Undergraduate course), TA Spring 2022
    advise for other students.

SKILLS AND TECHNIQUES

- Programming Language
  - ✓ C/C++, Python, C#, MATLAB
- Artificial Intelligence
  - ✓ Tensorflow, Scikit Learn, OpenCV
- DataMining
  - ✓ Spark, PySpark, Pandas
- Mechanical Engineering
  - ✓ Micro Contoller, CAD, CAE
- Version Control
  - ✓ Git

REFERENCES

Prof. Ji-Hyeong Han
Department of ICT Artificial Intelligence Program
Seoul National University of Science and Technology
232, Gongneung-ro, Nowon-gu, Seoul, Republic of Korea
+82) 02-970-6705
jhhan@seoultech.ac.kr

Prof. Hee-Young Maeng
Department of Mechanical System Design Engineering
Seoul National University of Science and Technology
232, Gongneung-ro, Nowon-gu, Seoul, Republic of Korea
+82) 02-970-6363
maeng@seoultech.ac.kr