Brandon Kim | Cirriculum Vitae

C & M Tech, Korea

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Education

Handong Global University
> B.A. in Engineering (Mechanical Engineering & Electrical Control Engineering)
- Major GPA: 3.35 / 4.5, overall GPA 3.24 / 4.5
- Interested in robotics, machine design, and mathematics

Skills

Fabricating skills
- Intermediate milling skills – hole, tapping, face cutting with appropriate centering.
- Intermediate lathe machining skills – angle cutting, drilling, tapping, and precision sizing.
- Beginner at MCT – Manual control and m coding, and automatic fabrication with CAD drawings
- Miscellaneous tooling skills – boor banc, tapping machine, hole-sawing, etc..

Machine and Industrial Design and Troubleshooting Abilities in Field
- Intermediate for Autodesk CAD and Inventor
- Intermediate for CAE using ANSYS, Inventor, and beginner at shell theory
- Comprehensive knowledge to apply the tolerance in variety of movement (LM/Rotation) using various machine components
- Comprehensive knowledge to design manufacture mold for several form of cosmetic products (lipstick/concealer/stick shadow/etc..)
- Intermediate knowledge about post-processing of machine components – thermal processing, anodizing, and galvanizing Zn, Chrome, Nickel, etc..
- Intermediate Pneumatic and Hydraulic Circuit Design and actual Troubleshooting ability
- Beginner at Designing Electrical Power System and Troubleshooting ability

Programming skills
- Embedded RTOS experiences (uC/OS-II, FreeRTOS, etc..)
- Intermediate C/C++/MATLAB skills, beginner python skill.
- Excel macro programming with C# and VB.NET.
- Intermediate AutoLISP programming skills

Work Experiences

2015.12 ~ 2018.12
- Powder Press Machine
- Tube Sealing & Filling Machine
- Lipstick Filling Machine / Extracting Machine
- Filling / Powder Press Mold Design
- Miscellaneous Filling Machines and Product Design for Cosmetic Product

Currently interested in and studying...

- Tensor Analysis and Calculus for Shell Theory
- Electromagnetics for AC Servo Control Theory
- Industrial Controls and for Robotics
- Machine Learning and Reinforced Learning for Robotics
- Major Features of Pneumatic and Hydraulic Components

Awards and Honors

Samsung Tomorrow Solution – Idea sector (elected as excellence award)
- CPR aiding instruments: Concept design

Languages

Korean(fluent), English(conversational), Japanese(beginner)

Citizenship

Republic of Korea