Hyungsup Park

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SKILLS

CAD: SolidWorks, PSPICE, Ansys, AutoCAD, Fusion 360
Hardware: 3D Printing, Soldering, Wiring
Software: Python, MATLAB, C/C++

EXPERIENCE

NVIDIA   Santa Clara, CA, USA
Hardware Engineering Intern   *May 2022 – May 2023*
- Using a shell script, ensured correct configuration of customer hardware, reducing installation time by **15%**
- Designed a testing algorithm using **C** to prevent the malfunctioning of customer hardware
- Performed hardware debugging to reproduce issues with **Root Cause Analysis**
- Conducted the installation and configuration of next-generation enterprise storage products
- Documented hardware design reviews to ensure customer designs meet NVIDIA guidelines

Human Powered Vehicles Design Team   Toronto, ON, Canada
CAD Design Member   *January 2021 – May 2022*
- In a team of 10+, designed and manufactured the human-powered aircraft **Kiwi** using carbon fibre
- Using **SolidWorks**, generated 3D CAD models and **GD&T** drawings for part design
- Performed FEA analysis with **Ansys**, to reduce the chance of failure of aircraft

UTDL Design Team   Toronto, ON, Canada
Mechanical Lead   *October 2021 – January 2022*
- Collaborated with an interdisciplinary team of 30+ to design the gripper system of an autonomous robot
- Led a sub-team of 5 to design gripper system parts using generative modelling in **Fusion 360**
- Held weekly meetings to discuss the design requirements of the gripper system

PROJECTS

GamePro | *C++, Solidworks, 3D Printing, Soldering*
- Designed and **3D printed** detachable hardware for handheld Nintendo devices using **SolidWorks**
- Automated hardware using a **C++** script and **OpenCV** library, reducing **20%** of total gameplay time

Gearbox Design | *SolidWorks, 3D Printing*
- Designed a 3D model assembly of a gearbox model through **SolidWorks**, reducing gear ratio by **67%**
- Prototyped and assembled gearbox parts using a **3D printer**

MindCraft3D | *SolidWorks*
- Collaborated with 5 teammates to design a **SolidWorks** model assembly of a professional FDM 3D printer
- Prototyped candidate designs of a 3D printer and documented the full design process of MindCraft3D

EDUCATION

University of Toronto   Toronto, ON, Canada
Bachelor of Applied Science in Mechanical Engineering   *September 2019 – May 2024(Expected)*
Minor in Robotics and Mechatronics
GPA: 3.87

CERTIFICATES

Certified SolidWorks Professional (CSWP)   Toronto, ON, Canada
                                                                      August 2021