

YOUNGWOONG CHO

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EDUCATION

THE COOPER UNION, New York, NY

Bachelor of Engineering in Mechanical Engineering | Class of 2022 | Cumulative GPA 3.9/4.0 | Engineering GPA 4.0/4.0

Korean Minjok Leadership Academy, Hoengseong, Gangwon, Republic of Korea

Class of 2015 | Cumulative GPA 3.8/4.0

RESEARCH & PROJECTS

ECO-FRIENDLY SOUNDPROOF INSULATIONS FOR REDUCING FLOOR NOISE

February – July 2014

Found the optimal ratio between ocher and charcoal that most effectively insulate the noise between the floors.

SUSTAINABLE BUILDING DESIGN AND CONSTRUCTION | EID-101: Engineering in Design

Fall 2016

Designed a new residential-commercial building using methods of sustainable off-site construction for an existing lot located at 2nd Ave & 7th St., Manhattan, NY.

SELECTED TOPICS IN MECHANICAL ENGINEERING | ME-363: Independent Study

Spring 2020

Employed the Moving Frame Method for setting up the equations of motion to predict the motion of a remotely operated underwater vehicle(ROV) and simulate the motion using Python or MATLAB.

TOUCHTRIS | ME-211: Designing and Prototyping

Spring 2020

Designed and prototyped an arcade game named TOUCHTRIS. The purpose of the game is to construct the given assembly of tetrominoes with tactile sensations; players are not allowed to see the tetromino pieces, but touch and feel them only.

SPLUX | 1006 Games

December 2019 – May 2020

Made a singleplayer and multiplayer tetris game using Unity. The feature that distinguishes 4-WAY TETRIS is that the blocks come down from every four directions. In multiplayer mode, players can not only complete the rows to score, but also invade other players' zones to sabotage.

EXPERIENCE

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY | Daejeon, Republic of Korea

August 2015

Intern at Physics & Electrical Engineering Department | Plasma system development for CO2 dissociation

REPUBLIC OF KOREA ARMY: 1st ENGINEER BRIGADE | Paju, Republic of Korea

June 2017 – February 2019

Driver, Mechanic | Capable of maneuvering and repairing military vehicles, including K-511 and K-711

SKILLS

Programming Languages

Java, Python, C, C++, C#, MATLAB

CAD

SolidWorks, AutoCAD, Onshape, Rhino, Autodesk Revit, Blender

Other Programs

Microsoft Office, Adobe Photoshop, Unity, Adobe Premiere, Sony Vegas

Skills

Laser Cutting, 3D Printing, Woodcraft, Metal Casting, Milling, Drilling