

# YUNHO CHO

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

B.S. in Mechanical Engineering with Minor in Psychology

Jun 2021 – May 2024 (Expected)

- Overall GPA: 3.61/4.00
- Recipient of A. James Clark Scholarship (4-year full-ride w/ stipends)

## EXPERIENCE

### SightWise [\[https://sightwise.co/\]](https://sightwise.co/)

Atlanta, GA

Software Engineer / Co-Founder

Apr 2023 – Present

- AI-based accessibility suite for the blind and visually impaired, leveraging ML, AI, & meticulously designed UX
- Fine-tuned large language models (LLMs) for visual description and deployed to AWS EC2 instances w/ GPUs
- Used TensorRT, Apache TVM to accelerate machine learning models for 5x speedup on Android & iOS
- Compiled machine learning models to execute in finger-sized embedded computer with ARM processors
- Over 1.5k users in first launched AI-based visual scene description product [\[https://sightwise.app/\]](https://sightwise.app/)

### HARRiS Lab @ Georgia Tech

Atlanta, GA

Undergraduate Researcher

Aug 2022 – Present

- Automation of finite-element analysis modeling and orchestration using COMSOL Multiphysics and Python
- Performed data-driven, statistical multi-objective optimization of geometry and sensor design parameters
- Presented @ 33rd World Congress on Biosensors (Elsevier), journal paper under review as co-first author

### HEART Lab @ Asan Medical Center

Seoul, Korea

Research Intern

May 2022 – Aug 2022

- Developed finger-worn wearable visual-tactile sensory substitution device containing micro-actuators
- Implemented computer vision models (object detection, segmentation, multi-object tracking, edge detection, visual grounding & question answering) and optimized for real-time inference using CUDA and TensorRT

### Adaptive Robotic Manipulation Lab

Atlanta, GA

Undergraduate Researcher

Feb 2022 – May 2022

- Devised thumb actuation mechanism of cable-driven assistive exoskeleton for pediatric patients

### Tap Systems

Pasadena, CA

UI/UX Design Intern

May 2020 – Aug 2020

- Designed natural & efficient input layout for Korean based on character frequency & finger fatigue modeling

## PROJECTS

### PCB-sEMG: Cost-Effective Surface Electromyography (sEMG) Sensor

Sept 2021 – Dec 2021

- Used cost-effective PCB manufacturing processes to create extremely affordable gold-plated EMG electrodes
- Implemented AD8232 biopotential amplifier and battery-powered Bluetooth Low Energy wristband
- Trained recurrent neural network (RNN) model for hand gesture detection & hand pose estimation
- Awarded 2nd overall in Georgia Tech 2021 Idea-to-Prototype competition among 50+ teams

## SKILLS

**Stacks:** SOLIDWORKS, MATLAB, COMSOL, ROS, OpenCV, PyTorch, ONNX, Altium Designer, React, Django

**Concepts:** CAD, PCB Design, Computer Vision, Reinforcement Learning, Finite-Element Analysis, Data Analysis