

BYUNGKEUN CHOI

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Seoul, Korea

github.com/dukichoi

EDUCATION

M.S. in Electronic Engineering, Hanyang University

September 2021 - February 2024

Advisor: Jeonghee Lee

Research Area: Bio-signal Processing and NeuroEngineering

B.A. in Electrical Engineering, Hanyang University

February 2013 - September 2021

SKILLS

Technical Skills

- Embedded software development(C++, Arduino)
- App development(Java)
- VR App development(Unity, C#)
- Data Analysis(Matlab, Python)
- PCB Design and Development (KiCad) and PCB soldering and Assembly

Language

- Korean(Native)
- English(Fluent): TOEIC 910, TOEIC Speaking 170(AL)
- Japanese(Intermediate): JLPT N3(before revision)

EXPERIENCE

Undergraduate Research Student

Embedded Security and Internet of Things Lab, Hanyang University

- Developed an embedded program to track sensor positions using data from a 9-axis IMU sensor with filtering techniques, and programmed an MCU board in C++ and Python for data visualization.

PROJECTS

Development of a Worker Safety Alert Android Application Using UWB Technology

- Developed an Android application that receives distance data from UWB anchors via BLE and provides real-time safety alerts to workers when within a specified range of machinery in construction environments.

Real-Time Location Visualization with UWB Triangulation on Android

- Created an Android app that visualizes real-time user location using UWB triangulation, incorporating Android animation and BLE.

HCI Device and VR Integration for Hand Tremor Measurement

- Developed an HCI device using KiCad, Arduino, and CAD with 3D printing. Also created a Unity-based VR app to measure tremors and export data for AI analysis.

STRENGTHS

Good Communication skills

Time Management skills

EXTRA-CIRRICULAR

Active Member of SPICMACAY.

Volunteer of Joyfest (Philanthropic initiative taken by students of SVNIT)

Member of Scosh - College Student Chapter

Coordinator in Sparsh - cultural fest

PERSONAL TRAITS

Highly motivated and eager to learn new things

Strong motivational and leadership skills

Ability to work as an individual as well as in group

PERSONAL INFORMATION

D.O.B.: 15 April, 1999

Languages : Hindi, English

Sports : Badminton and Table-Tennis