

# Hyungseop Yu

Curriculum Vitae

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## PERSONAL DATA

Affiliation      **Chonnam National University**  
Yongbong-ro, Buk-Gu  
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## EDUCATION

Mar. 2016            **Damyang High School, Republic of Korea**  
~ Feb. 2019        (SUMMA CUM LAUDE)

Mar. 2020 ~        **Chonnam National University, Republic of Korea**  
*Present*            B.S. in Electrical Engineering(Major)  
Electronic Engineering (Minor)  
Cumulative GPA: 3.83/4.5

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## RESEARCH INTEREST

- **Control System**
- **Nonlinear Control Theory**
- **Automatic control**
- **Robotics**

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## RESEARCH EXPERIENCES

- **Programming or Software Skills** : MATLAB / Simulink / Arduino / C / Python
- **Embedded Control System Lab** - Prof. Young woo, Lee (Oct. 2022 ~ , Undergraduate student researcher)  
PID controller, Automatic control, State feedback, State Observer  
Robot Manipulator, Time Delay Control, Disturbance Observer, Nonlinear control, System Analysis, Optimal control  
Reference Modulation, Sliding Mode Control
- **Capstone Design Team Project**(Vehicle platooning, Arduino, Team Leader)
- **Microprocessor Project**(Digital Doorlock, C)
- **Electric Power IoT & Sensor Engineering Project**(Emergency Alarm Helmet, Arduino)

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## AWARDS AND HONORS

2020            Grade Scholarship in Electrical Engineering, CNU  
-2022

2021	Scholarship & Commendation, Gwangju-Chonnam Local Innovation Platform
2021 -2022	Electric Company Scholarship, Korea Electrical Contractors Association(KECA)
2022	Grade Scholarship, Gwangju Buk-gu Office
2022	Challenge Scholarship, CNU
2022	Overseas Program Scholarship, College of Engineering
2023	Electrical Engineering Scholarship, KEPCO
2023	Award, LINC 3.0 Center Sharing&Collaboration Capstone Design Contest(Oncoming)

## EXTRA-CURRICULAR ACTIVITIES

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(Oct. 2020 ~ Dec. 2022)

Mathematics Teacher in Private Institute.

(Sep. 2021 ~ Nov.2021)

CNU Energy+AI Education Program.

(Sep. 2021 ~ Dec. 2021)

Engineering School Mentoring Program(BIXPO 2021)

(Oct. 2021 ~ Jan. 2022)

Energy Transition College Student Academy and Living Lab(Photovoltaics).

(Feb. 2022)

ROTC Basic Military Training.

(Nov. 2021~May.2022)

Hyundai NGV Campus Courses(EV/HEV/PHEV/New Energy Car/Motor).

(Jun.2022)

DB Business Management School.

(Jan. 2023)

Experiential and Cultural Program in University of Nevada, Las Vegas (4 weeks, dept of E.C.E., CES 2023).

(Feb. 2023)

Robotics Boot Camp, DYROS in Seoul National University.

(Jun. 2023, Oncoming)

Parameter Approach: Robust Control Short-term Course, CDSL in Seoul National University.

(Jul. 2023, Oncoming)

MATLAB College Student AI Contest

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