Nguyen Thien Phuoc

Date of birth	April. 11st 1996
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Current address	No 32-2, Dongning, Tainan, Taiwan

SKILLS

Control	System modelling, control theory, identification, optimization design, MPC, math.
Programming	C++, C#, Matlab-Simulink.
Embedded systems	Experienced knowledge of PC base, MCU base, embedded computer base, HIL.
Project managing and planning	Plan, manage, and execute projects
Academic research	Electric motor and drive, PMSM, Synchronous motor, inverter, observers.
Test benches	Motor testing, test bench analysis, develop, implement and validation. Experienced knowledge of dynamometer, electrical break, torque sensor.
Fault analysis	Drive fault detection, analysis and provide solution.

EDUCATION

SEP 2014 - DEC 2019 — **University of science and technology - the university of Danang**
Major: BS in control engineering and automation
GPA: 3.18/4
Graduation thesis: Model predictive control of ball and plate based sequential quadratic programming.

FEB 2020 – DEC 2021 — **National Cheng Kung University**
Major: Ms in field of Electrical motor and drive for Electric Vehicle.
Research topic: Control scheme for motor (FOC, DTC, DFC).
Observer (Flux, parameter variation).
Sensorless control.

WORK EXPERIENCE

AUG 2017 - APR 2018 — **Electrical Engineering Laboratory - University of Science and Technology - The University of Danang**
Internship
Research Assistant.

AUG 2017 - APR 2018 — **Macty Company**
Part-time job
Junior partner.

PROJECTS, COMPETITION AND ACIVITIES

FEB 2020 – DEC 2021 — **Research assistant**
Responsibilities: High speed region control research, develop and implementation of synchronous motor.
Achievement: incoming**.**

FEB 2021 – OCT 2021 — **E-Bike traction drive research: Hyena e-bike**
Responsibilities: system modelling, control algorithm, and implementation.
Achievement: Torque control implementation for electric power assist system – e-bike.

FEB 2020 – DEC 2020 — **High precision modeling of designed motor and control – Jmag - Simulink**
Responsibilities: system modelling, control algorithm, and implementation.
Achievement: Detailed model of designed motor and control implementation.

AUG 2018 – DEC 2018 — **Graduation Project:** Research and design the Nonlinear Model Predictive Control for ball and plate balancing system**.**
Responsibilities: Design and implement the system including hardware and software.
Achievement: Real time Nonlinear model predictive control for trajectory tracking of ball and plate system.

SEP 2017 – FEB 2018 — **Digital racing competition -FPT software.**
Team leader, programmer.
Responsibilities: Team leader, project manager, developer.
Achievement: development of Traffic Sign Detection application-based Computer-vision.

OCT 2017 – JAN 2018 — **ASU/AWS EduHackathon 2017**
Team leader, programmer.
Responsibilities: Team leader, project manager, developer.
Achievement: development of management software-based Amazon web Services.

JUL 2017 – AUG 2017 — **DAEGU-DANANG - University Student International Exchange Program**
Exchange student at Korea.

FEB 2017 – JUN 2017	**Science research competition - The University of DaNang** Developer **Responsibilities:** hardware design and implement, developer. **Achievement:** smart IOT manager system in small business in food industry.
APR 2016 – JAN 2017	**Robocon competition - The University of DaNang** Mechanical design **Responsibilities**: Design and implement robot model. **Achievement:** Development of self-driving robot, analysis, control implementation, validation and modification of object.

HONORS & AWARDS

2014, 2016, 2017, 2018	University of Science and Technology - The University of Danang Scholarships
SEP 2018	Certificate of good student 2017-2018.
2020,2021	NCKU Distinguished Scholarship

LANGUAGES

ENGLISH	IELTS 6.0 (2019-2021)