

Kota Fujimoto

PHD STUDENT

The University of Tokyo, Kashiwa, Japan

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Education

The University of Tokyo

PHD ENGINEERING

- Advisor: Dr. Hiroshi Fujimoto

Kashiwa, Japan

2023 - present

The University of Tokyo

MSC ADVANCED ENERGY

- Advisor: Dr. Hiroshi Fujimoto

Kashiwa, Japan

2021 - 2022

The University of Tokyo

BENG AERONAUTICS AND ASTRONAUTICS

- Advisor: Dr. Koji Uenishi

Tokyo, Japan

2017 - 2020

Teaching/Supervising Experience

2021-2022 **Graduate Teaching Assistant**, Electrical and Electronic Engineering, The University of Tokyo

Publications

IN PREP

Kota Fujimoto, Hiroshi Fujimoto, “In-flight Inductive Power Transfer to UAV Based on Position Estimation with Current Information and Flight Control with Detailed Model”

Kota Fujimoto, Hiroshi Fujimoto, “Robust Current Suppression Control Based on Disturbance Observer in Light In-flight WPT System for UAV”

Conference and Presentation

CONTRIBUTED PRESENTATIONS

Kota Fujimoto, Kentaro Yokota, Sakahisa Nagai, Hiroshi Fujimoto, “Modeling and Verification of Pitch-Dependent Coupling Coefficient for WPT to Flying Drone”, in 2021 IEE-Japan Industry Applications Society Conference (JIASC), IEEJ, 2021.

Kota Fujimoto, Takumi Hamada, Hiroshi Fujimoto, “Proposal on Model Based Current Overshoot Suppression of Receiver Side Coil in Drone Wireless Power Transfer System”, in 2022 IEEE PELS Workshop on Emerging Technologies: Wireless Power Week (WPW), IEEE, 2022.

Awards, Fellowships, & Grants

2022 **IEEJ Excellent Presentation Award**, The Institute of Electrical Engineers of Japan
APET Excellent Poster Presentation Award 3rd Prize, Center for Advanced Power & Environmental Technology

Outreach & Professional Development

SERVICE AND OUTREACH

2022 **School Festival**, Operational Stuff at Lab Introduction exhibit
Workshop in Kashiwanoha innovation festival, Operational Stuff at Craft Construction
Course of Dynamic Wireless Power Transfer

Tokyo

Chiba

INTERNSHIP

2022 **ACSL Ltd.**, R&D Mechatronics team

Tokyo

PROFESSIONAL MEMBERSHIPS

The Institute of Electrical and Electronics Engineers Graduate Student Member

The Institute of Electrical Engineers of Japan Society Student Member

The Japan Society for Aeronautical and Space Sciences Student Member