

Sho Morita

Graduate Student, Department of Electrical Engineering
Tokyo University of Science
Email: 7325615@ed.tus.ac.jp | **Phone:** +81-70-3133-0335



Education

M.Sc. in Electrical Engineering, Tokyo University of Science, Japan | *Expected March 2027*

Thesis topic: PWM control and efficiency optimization for PMSM drive systems

B.Sc. in Electrical Engineering, Tokyo University of Science, Japan | *March 2024*

Research Interests

High-efficiency PMSM drive systems

PWM and overmodulation strategies, including six-step operation and current-phase-angle-based control

Reduced common-mode voltage PWM techniques

Bidirectional DC-DC converter control for EV applications

Efficiency optimization of integrated power conversion systems

Technical Skills

MATLAB, Simulink, PLECS; LaTeX, Microsoft Office; Japanese (Native), English (Intermediate)

ICRERA 2026 Paper

Paper ID: 337

Title: “Overmodulation Control Based on Current Phase Angle with Adjustable Transition Position”

Updated: September 24, 2026