

Akira Takakura

System Design Engineering
Integrated Design Engineering
Keio University, Yokohama

+81-80-7837-6717

✉ takakura@sum.sd.keio.ac.jp

🌐 <https://www.github.com/akira-takakura>

🌐 <https://www.linkedin.com/in/akira-takakura-b14a37308/>

EDUCATION

- **Ph.D in Integrated Design Engineering, Keio University, Yokohama, Japan** Apr. 2026 - Current
Adviser: Prof. Takahiro Nozaki
- **MS in Integrated Design Engineering, Keio University, Yokohama, Japan** Apr. 2024 - Mar. 2026
Adviser: Prof. Takahiro Nozaki GPA 3.10/4.0
- **BS in System Design Engineering, Keio University, Yokohama, Japan** Apr. 2022 - Mar. 2024
Adviser: Prof. Hiromitsu Ohmori GPA 3.17/4.0

EXPERIENCE

- **Tokyo Robotics Inc.** Mar. 2022 - Nov. 2022
Software Internship Engineer Tokyo, Japan

PUBLICATIONS

- A. Takakura, K. Yane, T. Kitamura, S. Adachi, and T. Nozaki “Motion Reproduction System for Environmental Impedance Variation via Data-Driven Identification of Human Stiffness”, *IEEE Trans. Ind. Electron.*, vol. 73, no. 5, pp. 7214-7224, May 2026. **IF: 7.2**
- A. Takakura, I. Kotani, K. Yane, and T. Nozaki, “Bilateral Teleoperation with Auto-Elimination of Probing Signal for Environmental Impedance Identification Considering Operability” *IEEE Open J. Ind. Electron.*, Early Access, Mar. 2026. **IF: 4.3**
- A. Takakura, T. Yokoyama, S. Adachi, T. Nozaki, and H. Ohmori “Compatible realization of control and identification of direct adaptive control via probing signal auto-elimination” *IFAC J. Syst. Control*, vol.35, p. 100375, Feb. 2026. **IF: 1.7**

SKILLS

Languages: Japanese, English, French

Programming Languages: Python, C/C++, MATLAB/Simulink, Javascript, R

Tools: Deep Learning Frameworks (Pytorch), Python libraries (NumPy, Matplotlib, etc)

FELLOWSHIP

- JST Broadening Opportunities for Outstanding young researchers and doctoral students in Strategic areas (BOOST), JPY 300K/month, Apr. 2026 - Mar. 2027.

AWARDS

- **JSME Miura Award** Mar. 2026
- **IEEJ Industry Applications Society Excellent Presentation Award** Feb. 2026