



Study Plan for Japan

The University of Aizu - ICT Global All-English Program / School of Computer Science and Engineering

Applicant	Roberto Ocaviantyo Tahta Laksmana
Academic Background	Diploma 3 in Management Informatics, Universitas Gunadarma GPA 3.89/4.00
Target University	The University of Aizu, Japan
Target Program	ICT Global All-English Program, School of Computer Science and Engineering
Target Degree	Bachelor's Degree in Computer Science and Engineering
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Study Plan Summary

Goal: build a strong Computer Science and Engineering foundation, specialize in Applied AI and Data-Driven Systems, and grow into an AI-oriented software engineer or solution architect with international capability.

1. Academic Background and Motivation

I graduated from a Diploma 3 program in Management Informatics at Universitas Gunadarma with a GPA of 3.89/4.00. My background gave me a practical foundation in information systems, programming, databases, web development, system analysis, and applied IT. I want to continue into Computer Science and Engineering to strengthen the scientific and engineering foundations behind reliable, intelligent, and socially useful digital systems.

2. Reason for Choosing Japan and The University of Aizu

Japan is an ideal study destination for me because it represents discipline, innovation, research culture, and continuous improvement. The University of Aizu is especially suitable because it focuses strongly on Computer Science and Engineering and provides an international ICT learning environment. The ICT Global All-English Program matches my need to study computing in English while adapting to Japanese academic and professional culture.

3. Academic Fit

My target is not a general technology pathway; it is Computer Science and Engineering with a clear focus on Applied AI, Software Engineering, Data Systems, Intelligent Systems, and Data-Driven Decision Support. This direction connects my Management Informatics background with deeper computing theory, engineering practice, and responsible technology implementation.

4. Study Objectives

- Strengthen core foundations: discrete mathematics, algorithms, data structures, programming methodology, computer systems, databases, and networks.
- Develop engineering competence in software design, system implementation, testing, data management, and ICT-based problem solving.
- Build applied knowledge in artificial intelligence, machine learning, intelligent systems, dashboards, automation, and data-driven applications.
- Improve English academic communication and gradually develop Japanese communication ability for better integration in Japan.

5. Planned Study Path

Stage	Focus	Outcome
Foundation	Mathematics for computing, algorithms, data structures, programming, databases, systems, and networks.	Strong CSE foundation.
Applied Engineering	Software engineering, data systems, web/API development, dashboards, AI fundamentals, and ICT projects.	Reliable implementation ability.
Research Exposure	Applied AI, intelligent decision support, responsible AI, laboratory activities, presentations, and team projects.	Preparation for professional work and future graduate research.

6. Link to Research Interest

My study plan is directly connected to my research interest: Applied Artificial Intelligence for Intelligent Decision Support and Data-Driven Systems. I want to learn how machine learning, software engineering, data management, and user-centered ICT design can support prediction, classification, prioritization, monitoring, and service improvement in real-world contexts such as education analytics, IT service operations, business intelligence, and smart digital services.

7. Future Career Goals and Commitment

After graduation, I hope to work as an AI-oriented software engineer, data-driven systems developer, or solution architect. My long-term goal is to help organizations build secure, scalable, reliable, and responsible digital systems. If accepted, I will study seriously, respect Japanese academic values, participate actively in university life, and contribute positively to The University of Aizu.

Indonesia, 30 May 2026



Roberto Ocavianto Tahta Laksmana
Applicant

