BINUS UNIVERSITY

In Partnership with

ASO COLLEGE GROUP JAPAN

BINUS ASO SCHOOL OF ENGINEERING

What is BASE ?

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Present

BINUS ASO
SCHOOL OF ENGINEERING

THE HIGH QUALITY OF JAPANESE EDUCATION **NOW IN INDONESIA**

ハイクオリティな日本の教育を**今インドネシアで**

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&

BINUS University

Faculty of Engineering:

- Computer Engineering Dept.
- Industrial Engineering Dept.

Aso College Group

- ASO College of Automotive Engineering & Technology
- ASO Architecture & Design College

The Programs

Automotive & Robotics Engineering (ARE)

"Automate to excel"

A program **focusing on the union of mechanical and automated electronic systems applied mainly in automotive**;

To deliver engineers with solid manner that are able to create technologies for well-being;

Engineers who are ready to contribute to the future technologies and characterized with long life learning.

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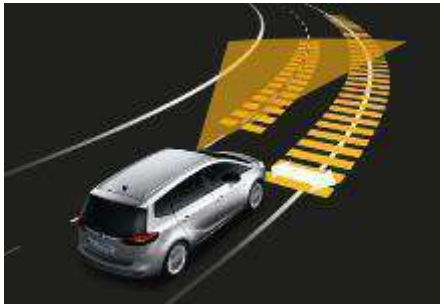
Automotive & Robotics Engineering (ARE)
"Automate to excel"

Career Prospect

Embedded System Developer



Car Automation System Engineer

Automation-based Solution Engineer

Robotics Production Engineer

Production Simulation Engineer

Techno-preneur

Graduate Competencies

Design Mechanical and Electronic Systems from the ground up to allow the two parts to work in harmony to effectively achieve the final function of the product or system within realistic constrains.

Solve Robotics and Automation Problems in the real world using the techniques, skills, and necessary modern tools, while considering the impact to various aspects of life.

Maintain and Improve manufacturing system based on the ability to analyze and interpret data, then to identify, formulate, and solve the problem, especially through automation.

Performing Professional and Japanese Work Ethics that apply to the global community.

ARE differences with the other technical programs

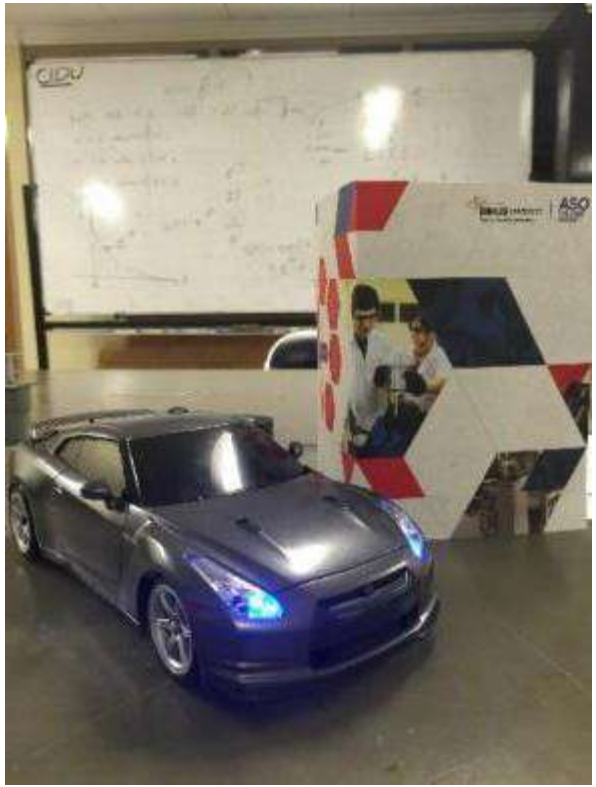
- Computer Engineering : studying the integration of electronics and computer science
- Mechatronics : a multidisciplinary field of engineering that combines the science of Mechanics, Electronics and Computer science, which aims to produce something
- Mechanical Engineering : study the application of physical principles for analysis, design, manufacturing and maintenance of a mechanical system
- Electrical Engineering : studying electrical applications to meet the human needs
- **Automotive Engineering : learn about how to design, create and develop land transportation that uses machine**

Students Project

Automatic Night Lamp

Automatic night lamp is an enhanced electrical circuit with light sensors, so it can light up automatically in the dark.

This technology can improve comfort and security at vehicle, and its main purpose is to ease and help human jobs.



Automatic Night lamp will be able to light up automatically after we turn the switch on.

It turns on in the dark with different intensity depends on the darkness level that is received by the sensor.

Students Project

Line Follower Robot

Line follower robot is a robot that can follow a line automatically. Nowadays line follower robot is important for the factory to help human in transporting many things such as components or boxes. So it can save human power and replace it with robot.

The goal is to make a simple line follower robot that can follow the line constantly.

The robot can follow the line constantly with average speed 15cm/sec.

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Product Design Engineering (PDE)

"Design with functions beyond beauty"

A program **focusing on the union of creative product design and industrial engineering that underlines functions and beauty yet affordable**.

The graduates will be able to **design not only creative products with ergonomic functions but also be able to design systems in industries that optimizes all resources**.

Career Prospect







- Commercial & industrial products designer
- Product planner
- Project designer
- Product developer
- Color & Material Specialist
- Modeler (digital & non-digital)
- Digital product simulation specialist
- Product design engineering consultant
- Engineering systems designer
- Entrepreneur

Graduate Competencies

1. Apply innovative design, mathematics, science, and engineering
2. Design, conduct experiments, analyze, and interpret data
3. Design a system, component, or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health & safety, manufacturability, and sustainability
4. Identify, formulate, and solve product design engineering problems
5. Function on multidisciplinary teams
6. Understand professional & ethical responsibility
7. Communicate effectively
8. Understand the impact of product design engineering solutions in a global, economic, environmental, and societal context
9. Recognize the need for, and able to engage in life-long learning
10. Have knowledge of contemporary issues
11. Able to use the techniques, skills, and modern tools necessary for product design engineering practice

PDE differences with the other design programs

Basically, all of the design program is the same. The difference can be seen on the output / product.

Product Design	: Focus on the value of artworks (aesthetics). The output / product of this program does not require a level of precision and exact size, for example: statues, trophies, key chains, dolls, accessories, etc.
DKV	: Focus on the beauty of the visual aspect, the artwork is two-dimensional and imaginative. Output: design for the purposes of advertising, promotion and branding
Architecture	: Focus on designs that consider the comfort of the living space. Output: building design
Interior Design	: Focus on the planning and layout of the room
Product Design Engineering	**: Output: glasses, bicycles, motor vehicles and accessories (tires, dashboard, steering wheel, lights, shock absorber, etc.), cameras, gadgets, home appliances, electronic equipment, sanitary products (closet, shower, bathtubs, etc.), etc.**

ASO Alumni's Careers

- TOYOTA MOTOR KYUSHU, INC. : Car Engineer
- BANDAI CO.,LTD : Plastic Model Designer
- MoonStar Co. : Shoe Designer
- Aimedia Co., Ltd. : Home Accessory Designer
- ASAHI Co., Ltd. : Furniture Designer
- SEKI FURNITURE Co., Ltd. : Furniture Designer
- Over Racing Projects Co., Ltd. : 3D-CAD Designer
- Japan Radio Co., Ltd. : Mechanical Engineer
- AISIN INFOTEX Co., Ltd. : 3D-CAD Designer
- Owl Craft Co. : Digital Modeler
- Toyota Production Engineering Co. : 3D-CAD Designer

OVER Racing
TPEC
KYUSHU
BANDAI
MoonStar THE FOOTCOMFORT COMPANY
WILLCOM

OWL CRAFT Industrial Design Model
AIMEDIA
ARRK Product Development Services
AIX AISIN INFOTEX Co.,Ltd.

The Lecturers

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Automotive & Robotics Engineering (ARE)

"Automate to excel"

Sofyan
| Head of Program

Bachelor degree in **Computer Engineering** from **BINUS University**

Master degree in **Electronic Engineering** from **The University of Tokyo**

Expertise:
- Automation
- Embedded Systems
- Wireless telecommunication systems

Junichi Sakurai
Deputy Head of Program |

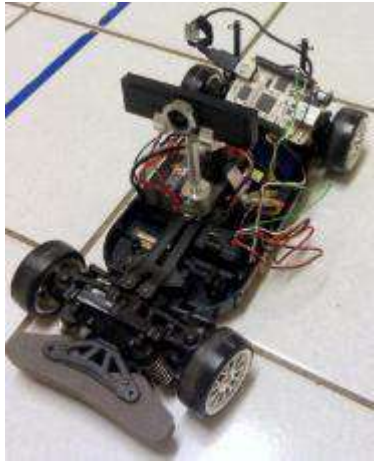
from **TOKYO,** JAPAN
25 years engineer experience

Expertise:
> Steel Plant
> Automotive
> Aircraft / Boeing 787
> Mechanical Engineering & Drawing
> Automotive Engineering
> 2D, 3D CAD system
> 5S and KAIZEN

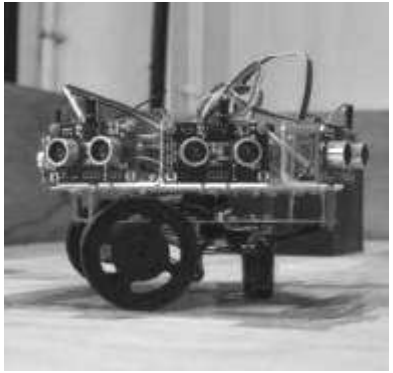
Professional experience
> Nissan Japan
(Developing Nissan March & Teana's Fuel System Development)
> Belgium Company
Manager of Plastic fuel system development section.

“Sofyan-sensei”

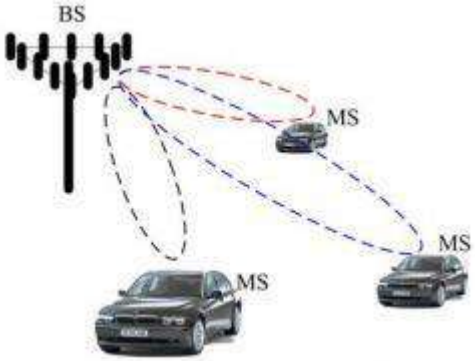
Projects and Researches



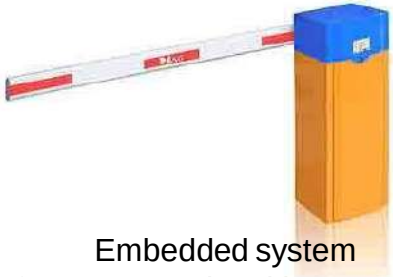
Lane keeping system
for autonomous vehicle



Obstacle avoidance robot
with evolutionary neurocontroller



Wireless channel prediction
for smart antenna system



Embedded system
for automated parking system

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“Sakurai-sensei”
Work Experience

Fuel system development for NISSAN

NISSAN DATSUN

Joined Belgium company.
- Manager of Plastic fuel system development section.
- Simulation, Layout, Designing, Performance evaluation.

TEANA

MARCH

ASO
COILEGE
GROUP
UNIVERSITY JAPAN

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"Sakurai-sensei"
Achievement in Education

2012,2011,2010 Student Formula Japan Competition

For Final Project in JAPAN

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Product Design Engineering (PDE)

"Design with functions beyond beauty"

Gatot Suharjanto
| Head of Program

Professional Experience

10 years in **Architectural Department – BINUS UNIVERSITY**

15 years in **Building Design Consultant Company "Tata Nusa Tiara International"** and **Japanese Building Contractor Company "TAKENAKA"**

Tsuyoshi Ishizaki
Deputy Head of Program |

from **TOKYO,** JAPAN

Professional Experience

10 years : ASO College Group in Japan

23 years : Hitachi Ltd.

Why BASE ?

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Adapting The Character Of The Japanese People

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International Standard Lecturers

(Including Lecturers from Japan)

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International Curriculum with Strong Emphasis on Hands-on Experience

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English-based Course Delivery with Japanese Language Course Supplement

Attain competencies required for working life

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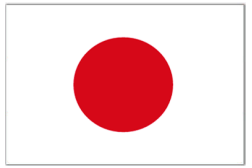

Links with Japanese industries for internship and careers

YASKAWA

TOYOTA

DAIHATSU

NISSAN

EPSON
EXCEED YOUR VISION

HINO

BANDAI

TPEC

Include summer course in Japan

Sophisticated Facilities

Industry Linkage

Toyota Production Engineering Corporation

Admission

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Arigatō gozaimasu

ありがとうございます