



# **Tama Technical Core Overview 2023**

**A TAMADIC Company**

# About TamaTC

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- Tama Technical Core was Founded in July of 2017
- Wide variety of engineering skill-sets available for your projects:
  - Structures, Systems and Interiors Engineering Design & Analysis
  - Design and Deliver simple to complex Aircraft Production Tools and GSE
    - Experience designing tools with moving components and sensory/control systems
    - Develop and provide Test Equipment such as Hydraulic and Electrical functional check Carts
  - Experts in Factory Automation (F/A) and Robotics
  - Evaluate & Improve Manufacturing Process efficiencies
  - In-house Design and Analysis Support for your projects.... or
    - Provide contract engineers & technicians
    - Source direct hires
    - Temporary to permanent hire personnel
  - We support most Design and Analysis Software Platforms
  - Sourcing of Valuable Suppliers & Partners in U.S., Japan and China
  - A turn-Key solution provider with products & services delivered to your location
  - We have the financial backing available to finish your projects on time and within budget without compromising on Quality

# About TAMADIC (TamaTC Parent Company)

## ■ Company Information

Established: 12 . Sep . 1959

Employees: 1,120 as of April, 2022

Sales: 120 million \$ US as of Mar 31, 2022

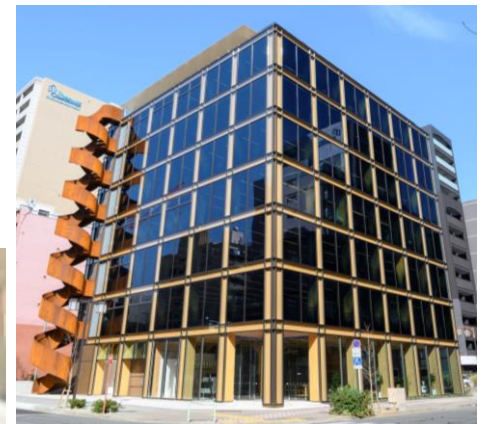
## ■ Management System ( Certified )

- ISO9001: 2015 (Quality)
- JIS Q9100: 2016 (Aerospace Quality, Similar to AS9100)
- ISO14001: 2015 (Environment)
- ISO/IEC27001: 2013 (Information & Security)
- ISO45001: 2018 (Safety & Health)

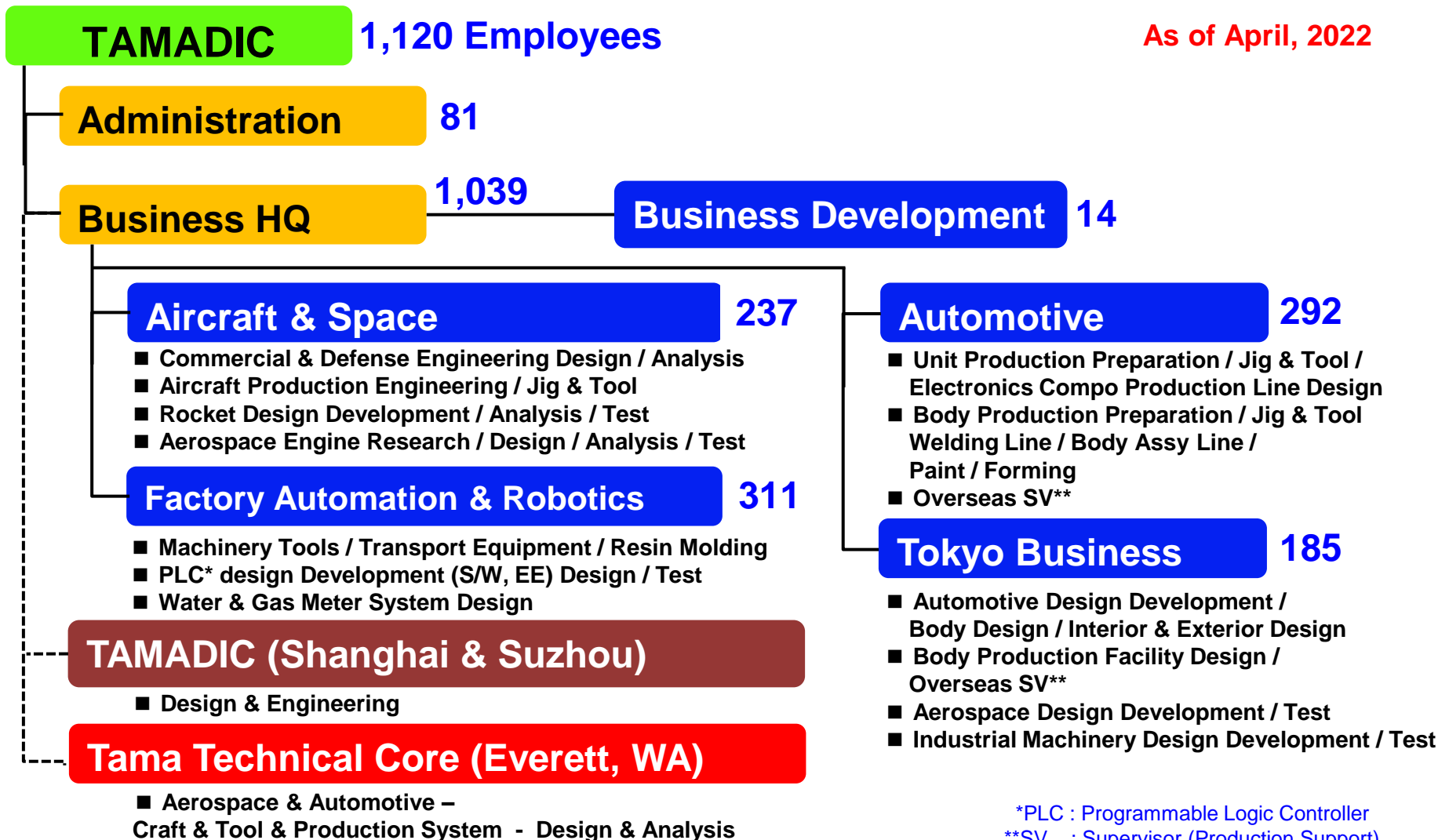


## ■ New Office Building

Moved into own newly built facility in  
Nagoya, Japan in 2021



# TAMADIC : Organization and Services



\*PLC : Programmable Logic Controller

\*\*SV : Supervisor (Production Support)

**Tama Technical Core**

# Business Areas

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Aerospace

Automotive

Factory  
Automation &  
Robotics

Electronics

# Aerospace 1

## ➤ Mechanical Design

Aircraft tooling and Production Equipment Design

Assembly Jig Design

GSE Design

Aircraft Structural Design

Aircraft Systems and Interiors Design

MRO and Aircraft Repair Design

Test Equipment Design

## ➤ Stress Analysis

Tooling and GSE Stress Analysis

Aircraft Structures Stress Analysis

Interior components, seats and monument Stress Analysis

Fatigue and Damage Tolerance Assessments

Structural Repair Manual and Maintenance Manual Development or Revisions

Repair Assessments

## ➤ Control & Software

Aircraft & Guidance Equipment Related Design

Software Development

Test Equipment Software Development

Flight Simulation System

Aircraft Wiring and Wire Harness Design

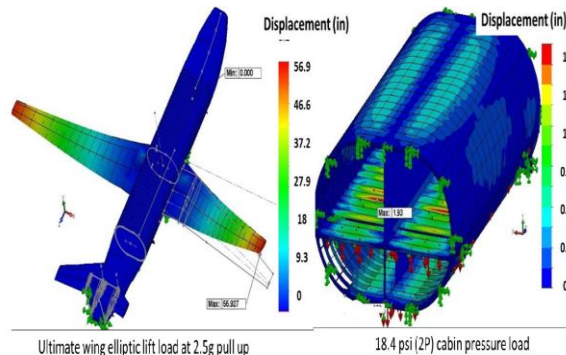


Figure 8: Structural analysis of a national F-16 fighter model with a scaled up 125% double-Dome fuselage

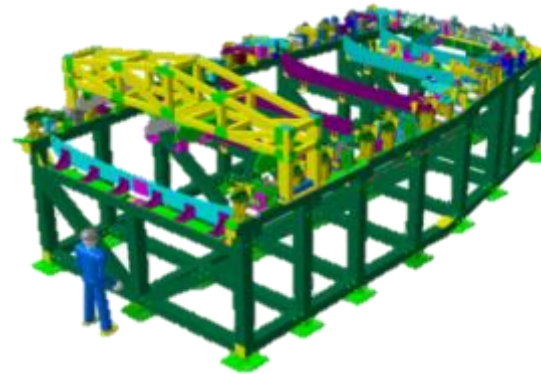


# Aerospace 2

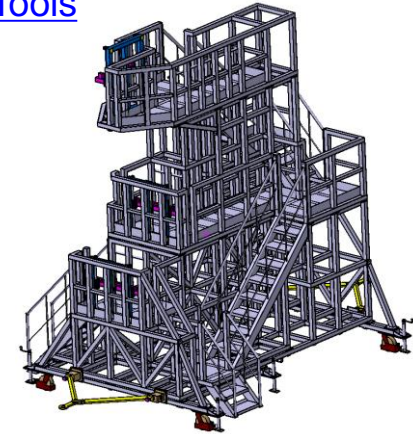


Flight Simulator (organic Design & Development)

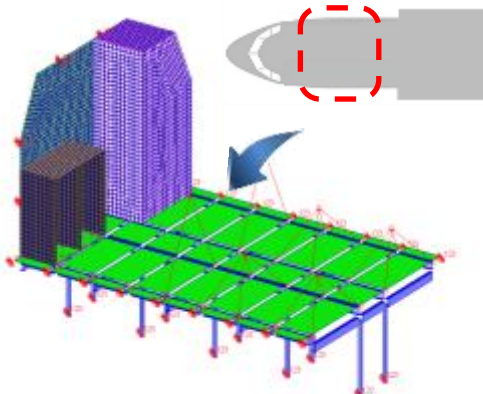
Aerospace Tools



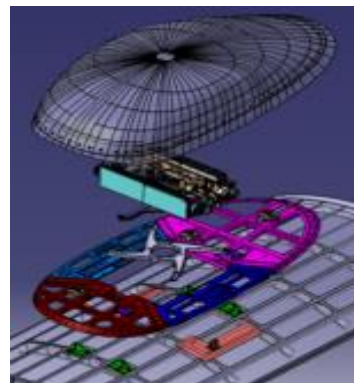
Assembly Jig



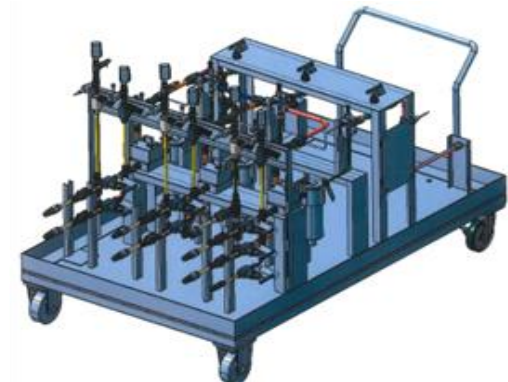
Work Platforms



Floor Analysis Model



MRO Projects  
WIFI Radome



Hydraulic Test Cart

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# Aerospace 3 Space Craft

## ➤ Mechanical Design

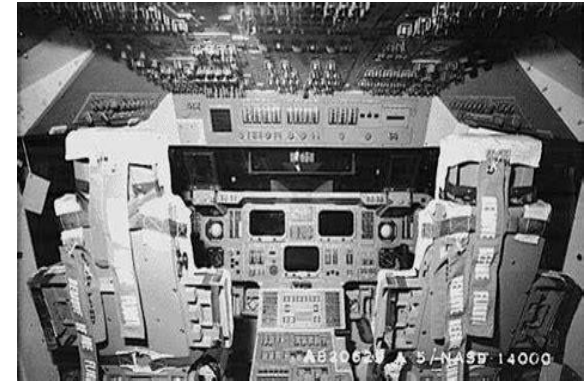
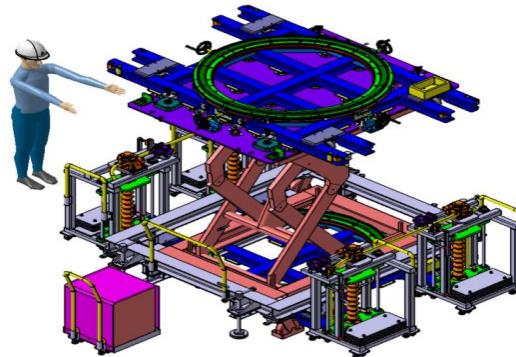
- Space Equipment
- Structural, Systems and Crew Furnishing Design & Analysis
- Assembly Jig & Test Equipment Design
- Development of Experimental Equipment for Zero Gravity Space
- Vibration Test & Data Analysis

## ➤ Production Technology

- Spacecraft Production Equipment Design
- Analysis and Testing of Rocket Strength, Vibration, Collision, and Aerodynamics
- Rocket Launch Maintenance Support
- Rocket Performance Test

## ➤ Control & Software

- Spacecraft Guidance Equipment Design
- Software Development
- Test Equipment Software Development
- Flight Simulation System
- High Pressure Gas Equipment Automatic Monitoring Device
- Rocket Flight Analysis



# Automotive 1

## ➤ Mechanical Design

Body, Interior & Exterior  
Design & Development

Motor Development &  
Design for Hybrid Vehicles

Battery Design &  
Development for Hybrid Vehicles

Powertrain Design &  
Development

Fuel System Parts  
Design & Development

## ➤ Production Technology

Layout Plan for  
Production Equipment

Transport Simulation

Digital Production Technology

Body Welding  
Equipment Design

Vehicle Assembly Equipment  
Design

Layout Plan for  
the Entire Vehicle

## ➤ Control & Software

Automatic Driving  
Support System

Unmanned Aerial Vehicle  
Control Design

Machine Tool Control  
Software Development

Transport Equipment  
Control Design

Control Panel Unit Design

Inverter Circuit Design



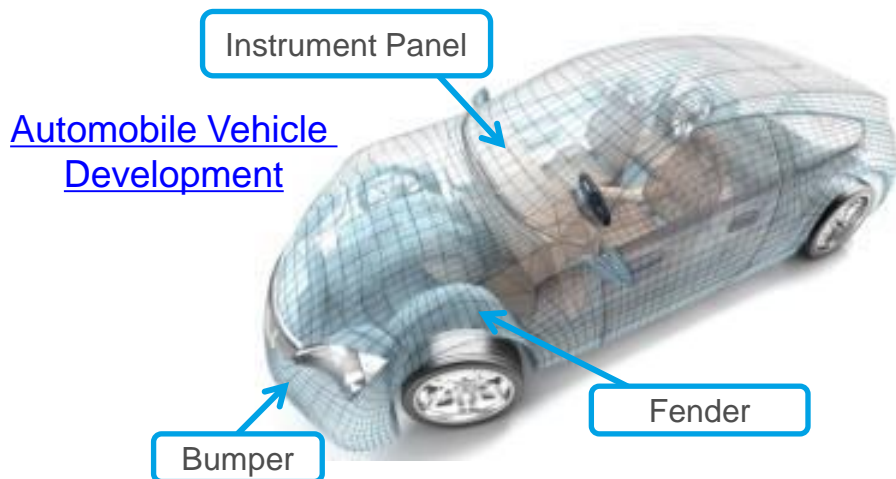
# Automotive 2



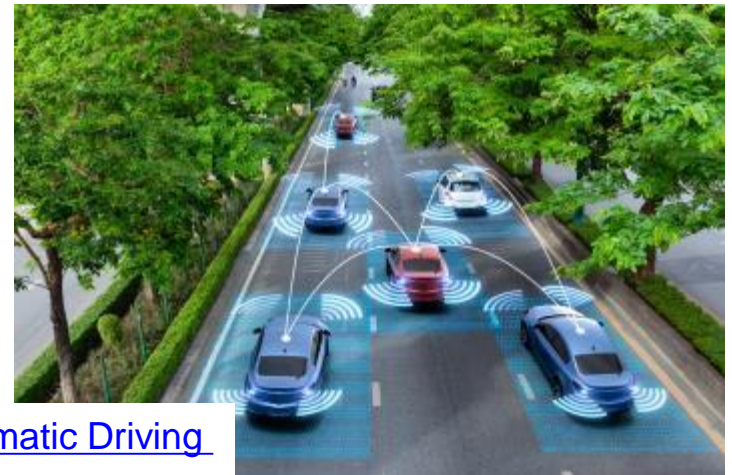
Automotive Unit Production Equipment



Automotive Body Production Equipment



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Automatic Driving Support System

# Factory Automation & Robotics 1

## ➤ Mechanical Design

Machine Tool Design & Development

Semiconductor & LCD Transfer Equipment Design

Logistics Equipment Design

Product Design & Development of precision equipment

Printed Circuit Board Mounting Machine

Design & Development of Home Appliances & Office Equipment

## ➤ Production Technology

Equipment Design for Forklift Production Line

Equipment Design for Gas Meter and Water Meter Production Lines

Industrial Robot Design

Conveyance System Design

## ➤ Control & Software

Automatic Guided Vehicle Design (AGV)

Clean Room Transfer Equipment Control Design

Logistics Equipment Sequence Control Design

Semiconductor Wafer Automatic Transfer Device

Production Equipment Control Design

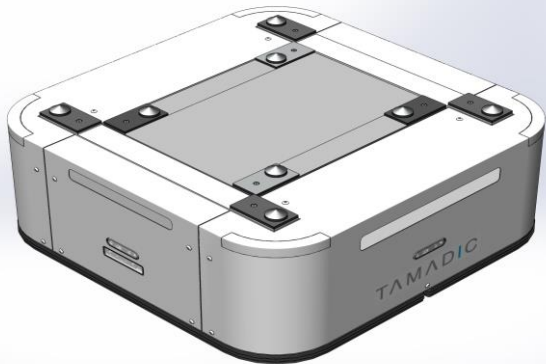
Industrial Robot Control Design



# Factory Automation & Robotics 2



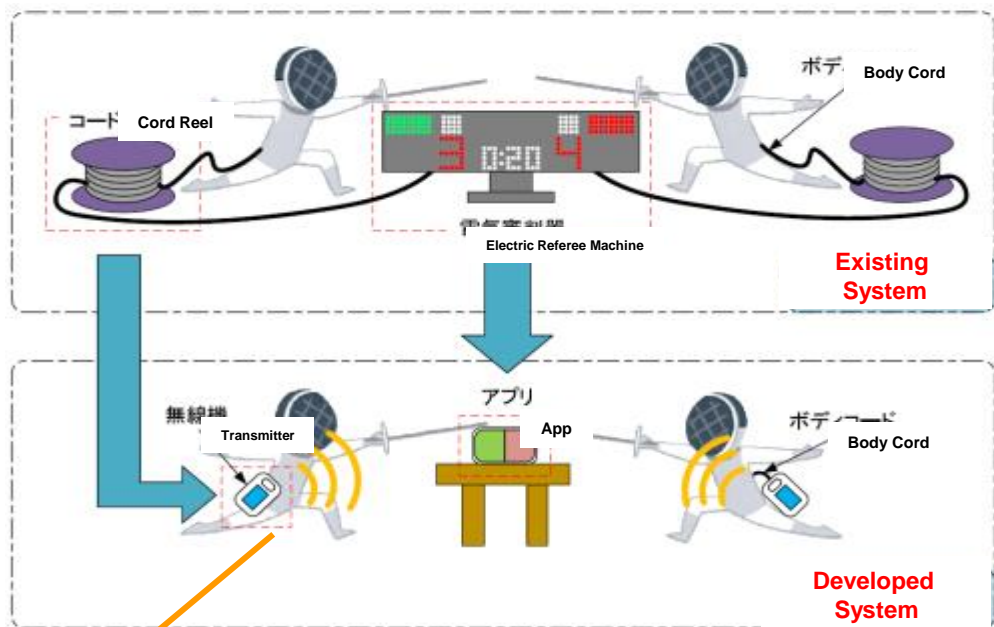
Machine Tool /  
Transport Equipment



Autonomous Driving \*AGV

\*AGV : Automatic Guided Vehicle

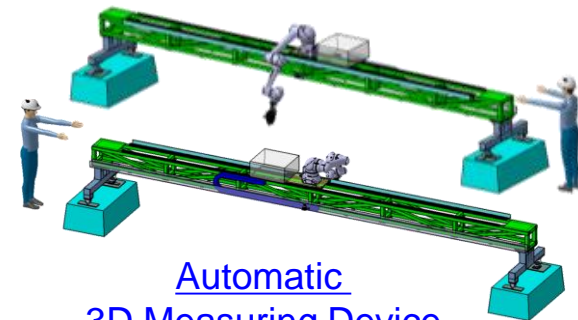
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Fencing Radio Referee Device



Image of  
Wireless Transmitter



Automatic  
3D Measuring Device

# Electronics 1

## ➤ Control Design, Circuit Design & Software Development

F/A Control Device Development

CPU Circuit Design for Controller

Evaluation of Embedded Software for Control Devices

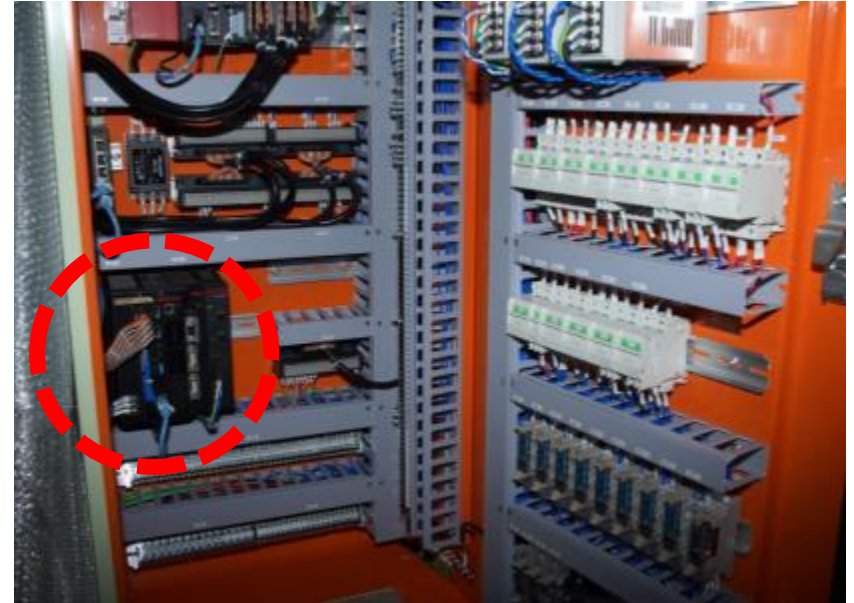
Printer Circuit Board Design

Design of Network Equipment Circuit for Control Device

Development of Motion Controller –  
Design of Electronic Circuit



# Electronics 2



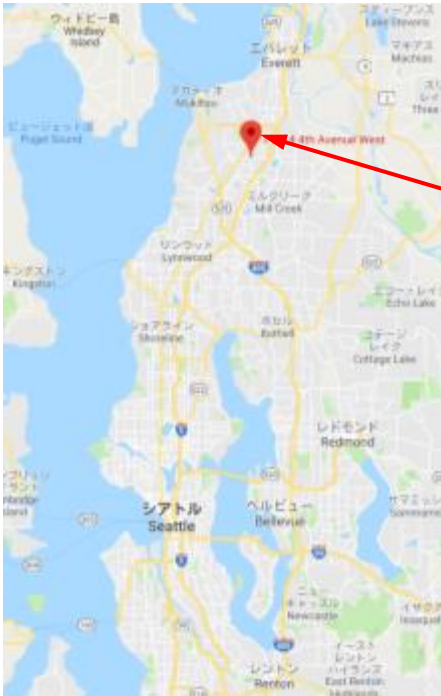
\*PLC Design & Development

\*PLC : Programmable Logic Controller

# Overseas Subsidiaries (US)

## Tama Technical Core Co.,Ltd.

- Established in 2017 - Everett WA.
- Providing Engineering Services in USA
  - Commercial Aircraft, Automotive, Design & Analysis, Tools, Factory Automation
- Ensuring Value through Collaboration with TAMADIC and Local Partners



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# Overseas Subsidiaries (China)

## TAMDIC Shanghai & Suzhou

- Shanghai Subsidiary Established in 2014: Suzhou in 2018
- Providing Engineering Services in China
  - Semiconductor Transfer Equipment, Logistics Equipment
  - Machine Tools, Electronics Equipment,
  - Automotive Production Facilities, etc.



# ■ Why partner with TamaTC ?

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*A rich history of engineering and manufacturing services and solutions inherited from TAMADIC Corporation, augmented with US based personnel and partner companies.*

Through TAMADIC we deliver the following advantages to our clients:

- 60+ years experience providing exceptional solutions to over 30 customers - including some of the world's most recognized companies
- Strong financial backing and resources to fund and complete our projects
- Blended rates between US and Japan to achieve competitive results
- Japan's history and ongoing desire in the relentless pursuit of high quality
- Strong culture for compliance and safety
- Commitment to be honest, transparent, accountable and efficient
- Partners and friends for life 😊

# Main Customers

- Aichi Tokei Denki Co., Ltd
- AIRBUS Helicopters Japan Co., Ltd.
- AISIN CORPORATION
- BROTHER INDUSTRIES, LTD.
- Chiyoda Corporation
- Churyo Engineering Co., Ltd.
- Daido Metal Co., Ltd.
- Daifuku Co., Ltd.
- DAIICHI JITSUGYO CO., LTD.
- DENSO CORPORATION
- DNP Engineering Co.,Ltd
- Envision AESC Japan Ltd.
- Fujita Corporation
- Hitachi Construction Machinery Co., Ltd.
- Honda Airways
- Hosei University
- IHI AEROSPACE Co., Ltd.
- IHI Corporation
- IHI Jet Service Co., Ltd.
- Japan Aerospace Exploration Agency
- Japan Air Self-Defense Force
- Joby Aviation
- Kajima Corporation
- KANADEN CORPORATION
- Kawasaki Heavy Industries, Ltd.
- KONICA MINOLTA, INC.
- Kurita Water Industries, Ltd.
- Mazda Motor Corporation
- MHI Logitec Company Limited
- Mitsubishi Aircraft Corporation
- Mitsubishi Electric Corporation
- Mitsubishi Electric Engineering Co., Ltd.
- Mitsubishi Electric Software Corporation
- Mitsubishi Electric System & Service Co.,Ltd
- Mitsubishi Fuso Bus Manufacturing Co., Ltd.
- Mitsubishi Fuso Truck and Bus Corporation
- Mitsubishi Heavy Industries Aero Engines, Ltd.
- Mitsubishi Heavy Industries, Ltd.
- Mitsubishi Motors Corporation
- Murata Machinery, Ltd.
- NIPPON Shooter Ltd.
- NISSAN Automotive Technology Co.,Ltd.
- NISSAN Creative Services Co., Ltd.
- NISSAN Motor Co.,Ltd.
- Nissan Motorsports & Customizing Co., Ltd
- NISSAN Shatai Co., Ltd.
- NTN Corporation
- NTT DATA MHI Systems Corporation
- OKAYA & CO., LTD.
- Primearth EV Energy Co., Ltd.
- Sanko Computer Software Co.,Ltd.
- Shiroki Corporation
- Siemens K.K.
- Sumitomo Wiring Systems, Ltd.
- TOKYO Boeki Techno-System Ltd.
- Toyoda Gosei Co., Ltd.
- TOYOTA Auto Body Co.,Ltd.
- Toyota Industries Corporation
- Toyota Motor Corporation
- Toyota Motor East Japan, Inc.
- Toyota Motor Kyushu, Inc.
- Toyota Tsusho Corporation
- Toyotsu Machinery Corporation
- Tsuzuki Education Group
- Woven Alpha

# **Tama Technical Core**