## Association Profile

### Name
Japan Embedded Systems Technology Association (JASA)

### Office
Main office: 1-8-12 Nihonbashı Hama-cho, Chuo-ku, Tokyo
Branch offices: Hokkaido (Sapporo), Tohoku (Sendai), Tokyo, Chubu (Nagoya), Hokuriku (Fukui), Kinki (Osaka), and Kyushu (Fukuoka)

### Purpose
Our goal is to make embedded systems technology more advanced and efficient and thereby contribute to the healthy development of the industry of Japan and to the improvement of the lives of the people of Japan by researching and studying related technology for embedded systems (in this document, "embedded systems" refers to all embedded systems technology, including software), promoting standardization, and promoting and teaching about embedded systems.

### Activities
To accomplish our stated purpose, we are engaged in the following activities:
1. Promotion of technological development and standardization regarding the quality, productivity, reliability, and security of applied technologies for embedded systems.
2. Promotion of education, local development, and international exchange related to embedded systems technology
3. Research and study into the technological, environmental, managerial, trade, and investment aspects of embedded systems and dissemination of this information
4. Exchange of information pertinent to embedded systems technology and cooperation with internally and externally related organizations
5. Promotion of applied technology for embedded systems
6. Provision of insurance and pension benefits to association members
7. Other activities necessary to the accomplishment of this association's goal

### Members
Regular members: 183. Supporting members: 31. (As of April 2012)

### Established
August 7, 1986

### Organization
Operating Division, Education Division, Technical Division, and ET Business Division

### Classification
Japan Standard Industry Classification 25012 (Embedded Software)

## Main Activities

1. **Embedded Technology, a Comprehensive Exhibit of Embedded Systems Technology**
   The World's Largest Exhibition and Conference Dedicated to Embedded Systems
   "Embedded Technology," a comprehensive exhibit of embedded systems technology
   Every year in November at Pacifico Yokohama
   The "Electronic Design and Solution Fair (EDS Fair)" is held at the same time.
   The Only Exhibition and Conference in Western Japan That Is Dedicated to Embedded Systems

2. **Implementation and Expansion of ETEC**
   (Embedded Technology Engineer Certification)
   Implementation of ETEC, a certification system for embedded software engineers that aims to promote the training and improvement in skills of embedded systems engineers. Expansion overseas (to China).

3. **Study and Research Activities for Technological Advancement**
   1. Case studies of safe design, surveying of techniques and methods recommended by safety standards, research and study into safety-related products, and support for IEC 61508 and ISO 26262
   2. Research and study into the standards required for information security and their delimitation; research and study into the development, screening, and evaluation of ISMS evaluation systems specialized for the embedded systems industry that will enable the construction of a management system; research and study into the CMSIS information security management system and ISO/IEC 15408; and safety, security, and quality (SSQ) surveys involving upstream processes
   3. Development of a framework for promoting the application of open source software (OSS)
   4. Research and study into managing and promoting virtualization technology
   5. Drafting of policies for improving the implementation quality of embedded software
   6. Research and study into hardware for embedded systems from both managerial and technological perspectives and research and study into hardware skills
   7. Organization and support for plugfests (technical events in which manufacturers who follow a certain standard test the interoperability of their devices) for HDMI, PCI Express, IEEE 1394, and other interface standards
   8. Research and study into technological and business trends in the platforms that serve as the common foundation for our business
   9. Drafting of the specifications of "Open EL for Robot, a software platform for robotics that is being proposed by JASA"

7. **Compilation of guidelines that describe methods for effective derivative product development using state transition table design and research and study related to the diffusion of design methods.**
8. **Research and study on modeling and verification for the achievement of reliable embedded software development and public awareness activities and dissemination of case studies for the education of engineers**

4. **Employee Training and Education Activities**
   1. Organization of seminars and forums in major areas throughout Japan
   2. Implementation of training courses for new members, engineer education, and skill improvement seminars
   3. Construction of training curriculum for enhancing employee skills
   4. Surveys of skills required by employers and internship promotion activities
   5. Industry awareness activities aimed at educational institutions and students and teaching of fundamental embedded systems skills
   6. Publication of materials related to embedded systems

5. **Organization of local tournaments and the championship tournament in the ET Robot Contest (ET software design robot contest)**
   This is a software development contest that helps to educate embedded software engineers. Engineer training and competitions are held in 11 areas within Japan. At the comprehensive exhibit of embedded systems technology, "Embedded Technology," which is held in November, a championship tournament is held between winning teams from each area.

6. **Support for Intercompany Cooperation and Organization of Business Exchanges**
   1. Implementation and management of matching events for strengthening of collaboration both within and outside of the organization
   2. Implementation and management of alliance business exchanges with organizations from other industries

7. **Promotion of Internationalization and Strengthening of Ties with Overseas Organizations**
   1. Research and study into internationalization and globalization and strengthening of ties with overseas organizations and groups
   2. The implementation and management of "Global Forum (November)," in which lecturers from overseas (China, Taiwan, and other parts of Asia) are invited to speak; "Workshop (February)," an event designed to promote internationalization; and other events.

8. **Public Relations Activities**
   1. Regular publication of "Bulletin JASA," which provides information about the organization and technological information (four times a year)
   2. Dissemination of information through the association website and e-mail newsletter
Support for Constructive Activities of Our Members

JASA provides its members with opportunities for research and study into the latest embedded systems technology, the exchange of information, and exchange between companies. JASA supports its members in a variety of ways so that they can go beyond just being single companies and promote the smooth revitalization of the entire industry.

1. Committees and Research That Transcend Company Boundaries
   JASA manages a total of 13 committees. Thanks to the active participation by its company members in research groups and various working groups that perform surveys and research into themes that are important to the industry as a whole, JASA is able to deal with a number of issues that would be difficult for a single company to tackle.

2. Embedded Systems Technology Seminars and Training
   Organization and management of a number of seminars and workshops, including ET seminars that deal with pressing issues in the embedded systems industry, orientations for new employees, and lectures for management.

3. Support for the Education of Embedded Systems Engineers and Other Employees
   Active support for the skills training that will support the industry in the future, including the application of the educational curriculum established by JASA, proposal of orientations that aim to enhance employee skills, internship promotion activities, and implementation and promotion of ETEC (Embedded Technology Engineer Certification).

4. Support for Intercompany Cooperation
   JASA provides member businesses with business opportunities by managing matching activities that bring together development, midstream, and downstream companies; exchange events with other similar groups and community groups; and other events.

5. Management of Relevant Events and Discounted Prices
   Members can participate in exhibitions and seminars held by JASA at special discounted prices.

6. Branch Activities That Are Firmly Rooted in Local Communities
   As the applications and market for embedded systems have expanded, the need for community-rooted business activities has also grown. By establishing and managing branch offices, JASA is able to promote activities that are firmly rooted in local communities, support community activities, and promote exchange between branches.

7. Pension Fund and Group Insurance
   Members can participate in the National System House Pension Fund, which is an affiliate of JASA, and participate in group insurance plans.

Initiation Fee and Dues

- Initiation Fee
  200,000 yen for regular and supporting members

- Dues for Regular Members
  Regular members must pay the dues for the category that corresponds to the member company's capital or number of employees, whichever is higher.

- Dues for Supporting Members
  The dues for supporting members are paid in units of 100,000 yen, and as a rule, consist of three units or more.

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<th>Category</th>
<th>Capital</th>
<th>Employees</th>
<th>Annual Dues</th>
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<tr>
<td>A</td>
<td>Less than 5 million yen</td>
<td>Less than 10</td>
<td>80,000 yen</td>
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<tr>
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<td>5 million yen or more and less than 20 million yen</td>
<td>10 or more and less than 50</td>
<td>160,000 yen</td>
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<td>20 million yen or more and less than 50 million yen</td>
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<td>240,000 yen</td>
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<td>F</td>
<td>500 million yen or more</td>
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*The annual dues and initiation fee are exempted for academic members.*