



Eric Pai, P.E., S.E.

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PROFESSIONAL PROFILE

Eri Pai is a structural engineer with substantial experience in both design and construction projects in North America and Asia. Eric has solid knowledge in building systems to support manufacturing facilities, commercial and residential projects. Eric is experienced in all phases of delivering complex projects on a fast-track schedule: site selection, master planning, programming, architectural/engineering design, bidding, and construction. Eric's portfolio includes manufacturing, micro-electronics, bio/pharma, commercial, industrial, institutional, science & technology, educational, and civic projects with construction costs ranging from \$1 million to \$1.2 billion. Eric also has expert witness experience which includes technical reports, peer reviews, field inspections, and litigation services.

POSITIONS

Brillouin Consulting **Senior Engineer**

San Francisco Bay Area, CA
Apr 2025 - Present

Forensic expert with substantial experience in civil engineering, structural engineering, construction defect, and premises liability.

AESC **Senior Manager, Engineering (Global Industrial Development)**

Santa Clara, CA
Jun 2024 - Present

Building a high-performance team of all engineering disciplines to support multiple fast-track giga factory design/construction projects in the US and Europe (US sites – Bowling Green, KY, Florence, SC, and Smyrna, TN | Europe sites – Sunderland, UK and Douai, France). Organized the engineering team to enforce the project quality, execute the cost-effective design/construction, protect AESC investment, and improve AESC return on investment on projects: review the Architect/Engineer of Record (A/EOR) work and construction document for quality assurance, code compliance, and value engineering; oversee Contractor field work for quality and compliance with construction documents and industry standards; support the internal Construction Management (CM) team during the construction phase and resolve field conditions; present updates to leadership. *Lead Structural Engineer (Global Industrial Development), Jan 2024 - Jun 2024.*

Tesla **Staff Structural Engineer, Structural Engineering Lead**

Fremont, CA
Jan 2021 - Jun 2024

Built a high-performance team to support the factory expansions, modifications, production retooling, and facility updates/upgrades. The following are examples of representative projects: strengthened existing flooring to support heavy loads of electrical room expansion; worked closely with tool vendors to adequately distribute the static/dynamic tool loads to the existing building to preserve the structural integrity; retrofitted existing buildings/structures for pilot lines installation. Presented innovative structural solutions for supporting production expansion to leadership. Recruit engineers with a positive can-do attitude and technical fundamentals/skills to fulfill the demanding challenges on intrigue designs, schedule and workloads. Review regular team member performance.

Rimkus
Senior Consultant

Concord, CA
Oct 2016 - Jan 2021

Performed hundreds of forensic engineering investigations for insurance companies, law firms, construction companies, and property owners. Investigated and evaluated buildings to determine damage, defects and failures of components and/or systems. The causes of damage included construction defect, earthquake, wild fire, hurricane, soils movement, construction vibration, foundation settlement, wind, storm surge, construction materials and/or installation. Provided damage assessments, deficiency mitigation, and cost estimate, and expert opinions on legal cases during depositions, mediations and dispute resolution related to construction defects of building systems and/or components.

Confidential Clients
Owner's Representative

Taiwan | China
Jun 2013 - Sep 2016

Evaluated design teams, general contractors, and suppliers for performance/cost. Communicated with corporate senior management and conveyed their project vision to the design team. Projects included wafer fab renovation and electronic OEM factories from conceptual design through tool hook up. The electronic OEM factories included production lines of precision tooling, forging, stamping, injection molding, plating, and testing and packaging.

Apple, Inc.
Global Sourcing Manager

Cupertino, CA
Oct 2012 - May 2013

Evaluated architects, EH&S consultants, general contractors, and suppliers for performance versus cost. Worked closely with the design consultants to help define the work scope, deliverables, schedules and rates. Produced the evaluation matrix to pre-qualify and rank the general contractors. Evaluated the performance of the design teams, and set up the performance goals and tiered fee structure. On contract through Mindlance.

DWP Integrated Services
Program Manager

Taiwan | Sunnyvale, CA
Mar 2009 - Oct 2012

Assisted the Owners on all aspects of their facility related needs for liquid natural gas (LNG) and compressed natural gas (CNG) projects in Taiwan and China.

APSS, Inc.
Facility Director

San Jose, CA
Apr 2007 - Feb 2009

In charge of site selection for H occupancy facility that was suitable for the process of hazardous materials. Worked with the process technology group to understand the demands on facility systems, and equipment evaluation. Evaluated potential sites in Vietnam, Singapore and Malaysia. Qualified the design-build team, worked with the team to develop the construction document for bids, and selected the sub-contractors.

Vibro-Acoustic Consultants
Associate

San Francisco, CA
May 2005 - Mar 2007

Managed the vibration and acoustic design team, and interacted with the owner, multi-discipline A/E team and the contractor to create a more pleasant environment for occupants, and to meet the clients' criteria for sensitive facilities and spaces such as retail shops, labs, wafer fabs, restaurants, and condominiums. Successfully acquired projects such as Samsung Fab A2, Austin, Texas, Powerchip Fab 12B, and HHSIS Fab K, Shanghai, China.

Biggs Cardosa Associates
Associate

San Jose, CA
May 2003 - May 2005

Led and managed structural engineering teams. Developed business opportunities and managed current customer relationships. Managed project schedule, budget and billing. Responsible for group profit and loss.

Bovis Lend Lease Microelectronics (BLLM)**San Jose, CA****Senior Project Manager**

Sep 2002 - Apr 2003

As a senior project manager with business development responsibilities, prioritized project leads through market analysis, collected information on the targeted projects, understood the needs of the clients, formulated the strategies to increase the opportunities of winning projects, produced impressive statements of qualifications and proposals, and maintained client relationships. Utilized global knowledge to assist clients in selecting project sites in new geographic regions. Identified client's facility demands for the latest process technologies and production demands, and provided expertise in all phases of design, IE, procurement and construction management accordingly. *Vice President, BLLM Taiwan from Mar - Aug 2002.*

Praxair Semiconductor Materials**Richardson, TX | Hsinchu, Taiwan****Business Development Manager**

Nov 1999 - Mar 2002

Responsibilities included identifying value/potential customers, searching business leads, setting up alliances, generating business and execution plans, and assembling the project team to deliver quality projects for both North America and Asia. Established and maintained customer relationships with high level management members of Applied Materials, Intel, TSMC, UMC, Nanya, Powerchip, Macronix, Mosel-Vitellic, ProMos, GSMC, SMIC, ATC, and AU Optronics.

Rinne & Peterson**Richardson, TX | Hsinchu, Taiwan****Vice President, Associate & Project Manager**

Jul 1995 - Nov 1999

Responsibilities included technical excellence, management, business development, project management, production quality control, and coaching. *Project Engineer from Sep 1988 - Jun 1993.*

Rutherford & Chekene**San Francisco, CA****Project Manager**

Jun 1993 - Jul 1995

John Carollo Engineers**Walnut Creek, CA****Project Engineer**

Nov 1986 - Sep 1988

ACADEMIC CREDENTIALS

Stanford University**Palo Alto, CA**

M.S., Civil/Structural Engineering

1986

National Chiao Tung University**Taiwan**

B.S., Civil Engineering

1985

PROFESSIONAL AFFILIATIONS

- California Professional Engineer (Civil), No. C44570
- California Structural Engineer, No. S3706
- General Contractor License: CA B840284
- Disaster Service Worker Volunteer, California Office of Emergency Services
- Chinese Institute of Engineers

PUBLICATIONS

- Co-author of "A Comprehensive Approach for Designing and Building the 300 mm Fab" published on Issue 5 of Future Fab International in 1998.

LANGUAGES

- English
- Mandarin