Capabilities Statement
Engineering & Technology
ADVANCE YOUR WORLD WITH TTI

About TTI:

Transpacific Technologies Inc. (TTI) is a woman-owned small business based in Pasadena, California, with a nearly two-decade track record of delivering best-in-class engineering services to vital national agencies such as NASA and NOAA. Our mission is to empower clients and partners through exceptional talent, robust team management, and strategic partnerships that foster long-term success. With a strong history of demonstrated past performance, TTI combines technical expertise with a commitment to innovation, ensuring we consistently deliver cutting-edge solutions to address complex challenges in support of these critical organizations and their impactful missions.

Codes and Certifications

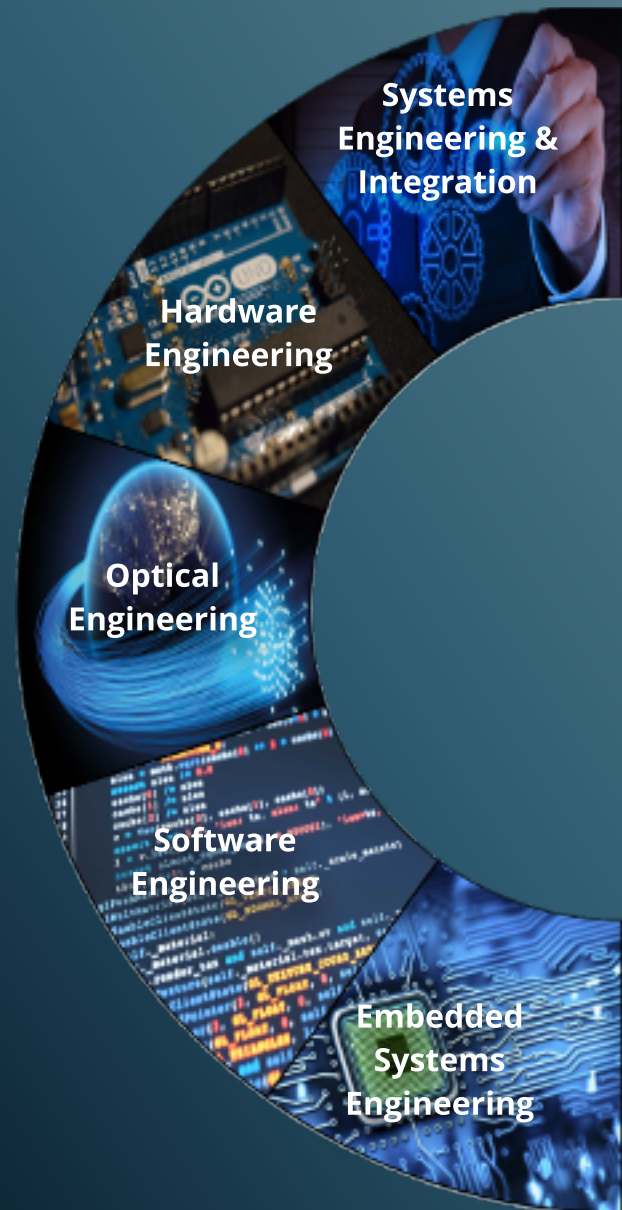*SBA Woman Owned Small Business*
SBA 8(a) Certified Small Business
GSA Contract : 47QRAA22D0075

NAICS Codes   **CAGE Code**

541330 541620   4PQT9

541511 541690

54151S 541990

Systems Engineering & Integration

Hardware Engineering

Optical Engineering

Software Engineering

Embedded Systems Engineering

Engineering & Tech Services

System Engineering: Integration support for space exploration, focusing on Verification and Validation.

Project Engineering: supports managing engineering projects for spaceflight and engineering projects

Electronic Hardware: Design and testing of aerospace electronics.

Electronic Technician Support: PCB fabrication, assembly, and troubleshooting.

Firmware & Embedded Hardware: FPGA/ASIC design, implementation, and testing.

Optical Systems: Development of free-space optical communications.

Software Engineering: Code development for flight and non-flight projects

Information Technology: System configuration, security, and performance management.

IT Help Desk: Tailored support for federal clients, focusing on compliance and security.

TTI Case Studies

Develop Systems Requirements, Verification and Validation (V&V) for various spaceflight products (e.g. tools, spacesuits, etc...) and applications for the ISS, the ORION-HLS, the ARTEMIS-EHP, and the Extra-Vehicular Activity / Human Surface Mobility Program

Customer: NASA Johnson Space Center

Upgrade the hardware for the Receiver and Ranging Processor (RRP) - a major assembly of the **Downlink Tracking and Telemetry Subsystem (DTT).** The **DTT** is a collection of hardware and software that processes the Radio Frequency input from the microwave subsystem to output telemetry frames, tracking range, and Doppler estimates. **The DTT is deployed at Deep Space Stations throughout the Deep Space Network global complexes in support of interplanetary unmanned missions.**

Customer: NASA's Jet Propulsion Laboratories

Design, development, integration and testing of high bandwidth systems for **free-space optical communication satellites**. We support building and characterizing components, sub-systems, and full operational systems, in order to achieve low-cost, light-weight, and reliable communications systems

Customer: Private Satellite Company

Design software components, develop code, design test plans and provide Information Technology support for the Advanced Weather Interactive Processing System (AWIPS). AWIPS is the corner stone of a multi-year modernization program providing key forecasting support and improvements to the National Weather Service's (NWS) products and infrastructure.

Customer: NOAA & National Weather Service

Our Clients

Point of Contact

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