



Job Description

Company: Sensor Platforms, Inc.
Department: Navigation Products

Title: Navigation Engineer

Education: Masters in Engineering / Physics / Mathematics
Role: Design of advanced inertial navigation algorithms for consumer applications using low-cost modern sensors

Responsibilities: Develop algorithms/heuristics to determine attitudinal/spatial properties from inertial sensors
Build verification routines to confirm functionality (synthetic)
Measure sensor data in the lab and in the field to establish range of sensor variations
Verify algorithms against live sensor data and determine modifications
Lead others in algorithm team (both employees and contractors)
Work closely with other members of the team

Requirements: Should be familiar with mathematics of: \mathbf{R}^3 Rotation Operators, Quaternions, Velocity Quaternions, SO(3) Matrices, Body/World/Euler Rates, Inertial Navigation, and Sensor Physics.
Must be able to conceptualize vectors, rotations and motions in 3-space (3D)
MATLAB must be spoken; all algorithmic/verification code is written in MatLab
Hands-on electrical bench experience (for testing of sensors) is helpful
Some experience with embedded processors (or ability to learn quickly)
Some experience with inertial sensors (or ability to learn quickly)
Friendly, personable attitude!

Company Culture: Small company (20 people)
Exciting, entrepreneurial environment: hard working, fast moving, many "hats"
Flat, loose organizational structure (minimal hierarchy)
Strong emphasis on teamwork
Very smart people who like to work hard and who enjoy challenges
Fun people who like to laugh, have fun (lasertag, paper airplane contests, bike rides, etc)
Family friendly (many families with small children)

Location: San Jose, California (Silicon Valley)
Compensation: Competitive
Stock options: Competitive
Contact: careers@sensorplatforms.com

Sensor Platforms, Inc. was founded in 2004 and is a fabless semiconductor company dedicated to providing sensor solutions for ubiquitous location-aware electronics. As computation and communications capacities of personal electronics mature, applications need to interact with the physical environment to deliver new levels of personal productivity. Addressing these rising needs, Sensor Platform is delivering a new class of intelligent devices that overcome existing performance and cost limitations by using precision analog/mixed signal designs and innovative algorithms. The company's initial products consist of navigation devices for heading correction, and rotational vibration cancellation devices to improve hard disk drives data throughput performance. Sensor Platforms is headquartered in San Jose, California. For more information, visit www.sensorplatforms.com.