Position Title:	**Aviation Systems Engineer**
Department:	**Engineering**
Reports to:	**Aviation Systems Engineering Management (Team Leader Manager or Director)**
Job Status:	**Exempt**

POSITION SUMMARY: Support successful conception, development, and/or application of sophisticated avionics systems by creating, identifying, documenting, and coordinating customer and regulatory system requirements and scalable system design for integrated flight deck programs and/or retrofit product lines

ESSENTIAL FUNCTIONS:
- Identifies, documents, and coordinates technical aspects for development of new interfaces / functionality or changes to existing complex system functionality in order to support market-driven or specific customer requirements
- Creates system requirements, supporting rationale, technical description documentation, and performs limited trade-off analysis for derivative/delta functionality, following requirements standards and best-practices
- Coordinates implementation details for program-specific execution of system-level processes, recommends improvements to processes and evaluates new options for similar technology
- Allocates system-level requirements across multiple sub-systems or to HW/SW, and may also define verification methods
- May provide support for tool definition, development, and/or maintenance
- May generate bench test plans/procedures for select interfaces or functionality, and execute these procedures
- Leverages advanced troubleshooting skills to provide assistance with troubleshooting equipment in the field, including identifying technical root cause and suggesting corrective action for given problems using sound problem solving techniques
- With some guidance, coordinates technical roadmaps
- Performs system requirements reviews
- With some guidance, performs technical market research in support of product definition and/or business development initiatives
- Provides reliable solutions to a variety of problems using sound problem solving techniques
- Serves as a mentor to less experienced engineers (Aviation Systems Engineer 1)
- Applies a sense of urgency, commitment and focus on the right priorities in developing solutions in a timely fashion
- Applies Garmin's Mission, Vision, Values and Quality Policy and enthusiastically exhibits a desire to see Garmin succeed

OTHER RESPONSIBILITIES:

- Perform other job-related duties as assigned

EDUCATION, EXPERIENCE, AND SKILLS REQUIRED:

- Bachelor of Science Degree in Computer Science, Electrical Engineering, Computer Engineering, Mechanical Engineering, Aerospace Engineering, Math, or Physics from a four-year college or university **AND** a minimum of 1 year relevant experience **OR** an equivalent combination of education and experience with outstanding academics (cumulative GPA greater than or equal to 3.0 as a general rule)
- Demonstrates advanced knowledge in one or more of the following technical areas:
  - Systems Integration
  - System Safety
  - System Requirements
- Demonstrates advanced troubleshooting skills
- Driven problem solver with proven success in solving difficult problems
- Demonstrated strong and effective verbal, written, and interpersonal communication skills
- Must be team-oriented, possess a positive attitude and work well with others

DESIRABLE QUALIFICATIONS:

- Previous work or internship experience with consumer or aviation products