LUIS E. ALVARADO

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Dear Hiring Professional:

I am a qualified and experience Senior Systems Engineer with a Bachelor of Science and a Master of Science Degree in Electrical Engineering, and over 40 years hands-on experience in the development, integration, test, and evaluation of real-time navigation guidance and control systems. I also have extensive experience in modeling and simulation of physical systems. The following accomplishments summarize my work experience:

- Manager of Engineering Development, Test and Operational Team.
- Scrum Master, Agile Dev Ops
- Development, Testing and Operation of Target Control and Fire Control Systems
- Development, Operation and I V & V of In-Flight-Simulator for Guided Bomb
- Worked at the Desert Ship at WSMR supporting SM-6, and SM-2 live tests.
- Control System Algorithms for ground and aerial unmanned vehicles.
- Math Modeling and 6-DOF Simulation Algorithms of ground and aerial systems.
- Development of way-point and flight pattern Guidance algorithms.
- Co-developer of Path planning algorithm using A* in Target Control System
- Inertial, DME and GPS Navigation Algorithms.
- Developer of Kalman & Bucy Tracking Filter for Target Control System.
- Motion Detection and Tracking Algorithms using Infra-Red Cameras.
- Tracking Algorithms using Satellite Infra-Red Sensor Data.
- Background and Noise Elimination Algorithms of IR Satellite Data.
- Digital Signal Processing and Data Analysis using MATLAB and SIMULINK.
- Crash Investigations of Aerial Targets.
- Preliminary design of radar avoiding trajectories using A* algorithm
- Proposal writing of small and large contracts.
- Missile Simulation, operational and performance analysis.

In summary, I have extensive professional experience in performance-driven and mission critical environments where I have been instrumental in developing, implementing, and evaluating a variety of systems engineering services to meet the needs of military and civilian clientele. I am a uniquely talented and highly motivated individual seeking the opportunity to utilize my talents and diverse work experience to improve processes and technological performance for your organization. My excellent work ethic and problem-solving skills have enabled me to enhance project performance and respond effectively to emergent and unanticipated demands.

I would be very interested in speaking with you to explore how my skills, strengths, and experience can benefit the organization. Thank you for your attention, kind consideration, and forthcoming response.

Enclosed please find a copy of my resume. I offer it for your records.

Sincerely,

Luis Eduardo Alvarado.