# Experienced Electronics Engineer specializing in development of robotic and feedback control systems.

**SKILLS:**

* Design and develop machine vision, sensors, and automatic feedback control systems.
* Created requirements, technical proposals, equipment specifications, test procedures.
* Design and create prototypes for new products.
* Develop software for low-power embedded microprocessor systems.
* Create analog and digital interfaces for sensors and feedback control systems.
* Ubuntu Linux, Windows 7: C/C++, Basic, IsoMax, and assembly
* TI: MSP430, MicroChip: PIC, Motorola: DSP56F803, and Intel: 8051

**EXPERIENCE:**

Independent Contractor2006 – present

* Designed interface electronics for sensors and motors.
* Developed machine perception for obstacle avoidance on autonomous robots..
* Developed Machine Vision projects using RoboRealm software.
* Engineered integration and testing of subsystems.
* Developed mechanical hands with multiple grasp shapes and multiple sensors.
* Designed analog and digital printed circuit boards for sub-systems.
* Developed control software in C and Basic for autonomous walking robot.
* Machined small mechanical components for robots developed.
* Past president of the Robotic Society of Southern California.
* Created autonomous robots for contests: using sensors, motors, and micro-controllers.

**Senior Electronics Systems Engineer 1977 - 2005**

Lockheed Martin (Advanced Development Programs)

* Provided Systems Analysis for Unmanned Air Vehicle software development.
* Designed and developed electronic sub-systems to improve performance of military aircraft,resulting in additional aircraft upgrade contracts.
* Designed aircraft installations for new displays for U2 aircraft cockpit, aircraft engine upgrade, audio system upgrade.
* Designed electronics for Anti-Submarine aircraft, (P3C and S-3A aircraft) to increase performance and effectiveness.
* Performed systems integration on military aircraft.
* Provided engineering liaison support for production flight testing.

**EDUCATION:**

BS degree in Electronics Engineering

California State University, Pomona