



Orlando Banos-Rivas

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www.obanosengineeringconsulting.com

Profile

Technical leader in the medical device and biotech instrumentation product development industries.

Experience

Principal, OBanos Engineering Consulting, Santa Cruz, CA — 2019-Present

PCBA Design, Development and bring-up for electronics instrumentation.

Senior Hardware Engineer, Ontera Biotech, Santa Cruz, CA — 2017-2019

PCBA Design and Development for a Sample-to-Answer bench-top DNA Analyzer. Performed System Integration Testing and Troubleshooting to component level. Managed PCBA Contract Manufacturer.

Sensor Prototyping Engineer, Apple Computers, Cupertino, CA — 2014-2017

Developed Novel Electronics Prototypes for Human-to-Computer Interaction Explorations using Touch. Exhibited Concepts and Functional Prototypes to Senior Engineering Management periodically.

Senior Electrical Engineer, Synapse, San Francisco, CA — 2013-2014

Developed Printed Circuit Board Assemblies, Firmware, Test Methods and Fixtures for Wearable and IoT Devices. Captured Specifications, Demonstrated Functional Prototypes to Internal and External Clients.

Principal Electrical Engineer, ZOLL Circulation, Sunnyvale, CA — 2008-2013

Led the Design of a Battery Management System for a Chest Compression Device. Led the Electrical Safety certification and New Product Introduction for an Endovascular Temperature Management System.

R&D Senior Engineer, Proteus Digital, Redwood City, CA — 2007-2008

Developed Electronics Circuitry for ingestible Marker Wearable Sensor. Led the Pilot Manufacturing of an Electrical Tomography System. Supported Pre-Clinical Investigations at Research Institutions.

Senior Electrical Engineer, Becton Dickinson, San Jose, CA — 2001-2007

Developed Signal Conditioning and Data Acquisition PCBAs for various Flow Cytometers. Collaborated with HW, SW and ME teams to Complete System Integration Testing and New Product Introduction.

Education

San Francisco State University, Bachelor of Science Engineering — 1985

San Jose State University, Master of Science Industrial & Systems Engineering — 1998

Patents

US 9099877B2, Battery Management for Control of Lithium Power Cells, Aug. 2015.

US 20100280366A1 Continuous Field Tomography Systems and Methods of Using the Same, Nov. 2010.

Expertise

CAD: Altium Designer, Circuit Studio, Eagle, KICAD, OrCAD.

SW: Python, LabVIEW, C, Verilog

Interests

Contributor, Coursera Global Translator Community, English-to-Spanish.

Mentor, Youth Now, Watsonville CA.