

EIR Volunteer Expertise Spring 2018

Sam Babb

- Analog Circuits
- EMI/RFI
- Power conversion DC to Ac, AC to AC
- Signal Integrity
- Analog Circuit Design and Analysis

Chuck Duey

- PCB Design, prototyping and soldering
- Brewery Automation
- Raspberry PI Applications
- Remote Sensing including weather monitoring
- RF CMOS Circuit Design and Packaging

Doug Bartlett

- Bluetooth Use, Design and Low Energy Application
- Computer Architecture
- Embedded Microprocessor HW and SW
- Internet of Things
- Sensors

Scot Heath

- Efficient Data Center Cooling; Design and Analysis
- Power equipment design and analysis
- Analog Circuit design and analysis
- Custom VLSI Design

Christian Becerra

- PCB Soldering and CNC Milling
- 3D Printing
- Troubleshooting
- Reverse engineering (IC, PCB)
- Test Engineering

William Hudson

- Electrical Engineering
- Applied Physics, Instrumentation and Optics
- VLSI design, Digital Logic, Microprocessors
- Engineering Software Development
- Linux,Perl,C++,Shell,Tcl,Subversion

Susan Benzell

- Program/Project Management
- Communications
- Leadership

Susan Hunter

- Optical System Design
- Zemax Lens Design
- Lasers

Tena Britt

- Control Systems Design
- Digital Design
- Dynamic Analysis
- Matlab

Neil Hurst

- Product Development and Test
- Data loggers, modems, machine vision
- Field engineering
- Remote weather Monitoring
- Electric Utility Engineering

Josh Datko

- Cryptographic Applications
- Embedded device Security
- Embedded Firmware

High Kirbie

- Power Conversion from Renewable sources
- Network Modeling and PCB Layout
- High Power Lasers and Optics
- Energy Storage and Switching
- Electromagnetic Propulsion (Linear and Rotational)

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Gary Kirkpatrick

- Mechanical engineering
- Power Transmission, gears, bearings, etc.
- Reliability engineering, vibration, thermography
- Precision Optical alignment
- Offshore Manufacturing-spent 3 yrs in China

Lynn Schmidt

- General circuits and System design
- R&D product design
- DSP, Digital and VLSI embedded SW and Systems

Jonathon Lotz

- Computer Architecture
- Programming
- Electrical Engineering
- Woodworking
- Leadership

Eli Scott

- Mechanical design CAD Solidworks
- Prototype Building and 3D Printing
- Water Proofing/sealing/fluid systems
- Sensors
- Electronic/mechanical design

Steve Narciso

- Analog Circuit Design
- System Design
- Electronic Test and Measurement
- Project Management

Robert Thelen

- Analog Circuit design
- Tools (Spectre, Skill, Virtuoso Layout, EMX, Ocean)
- Fluent Spanish
- IC Circuit Design

Steve Pacheco

- Systems engineering
- Control systems and Software
- Power Generation and management
- Gas Turbine, Steam Turbine, Diesel and Generator Control Theory
- Communications Networking

Richard Toftness

- High Speed CMOS Imagers and Cameras
- Analog Circuit design
- Mechanical design with Solidworks
- Manufacturing
- CMOS Circuit Design

Charlie Potter

- Analog and Digital Circuit Design
- Signal Processing
- Project management
- Systems Design