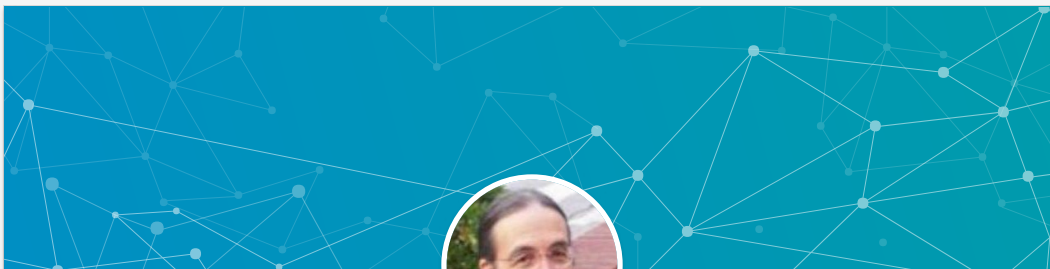




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**Rick Walker**

Agilent Technologies at Agilent Technologies  
 Agilent Technologies • California State University-Chico  
 Palo Alto, California • 207

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Digital, Analog and RF electronic circuit and system design. SPICE simulation and complex system analysis. Prototyping skills (SMT soldering, rework, debugging), Automated test and small scale manufacturing. Linux system administration. Open-source software. Microprocessor and embedded control programming. Phase-locked-loop control theory. Gigabit-rate data transmission and coding. Microcontrollers, brushless motors, CAD/CAM, coordinated multi-axis stepper motor control, factory automation.

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**Experience**



**Agilent Technologies**  
 Agilent Technologies  
 Jun 2016 – Present • 1 yr 8 mos  
 Santa Clara, California

Circuit design for Time of Flight Mass Spectrometers: High Voltage systems, signal processing, instrument control systems.



**Owner**  
 R&R Engineering LLC  
 Jan 2010 – Present • 8 yrs 1 mo  
 Palo Alto, CA

Engineering Services and Products.


Design and manufacture of custom high-speed serial data transmission test equipment, including USB2.0, USB3.0 and PCIe multi-channel hot-plug testers. Turnkey microprocessor, PCB, analog and digital design services.



**Consulting Electrical Engineer**  
 Speck Design  
 Jun 2015 – Jul 2016 • 1 yr 2 mos  
 Palo Alto, CA

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**Consulting Electrical Engineer**  
 Corning West Technology Center  
 May 2009 – Jan 2015 • 5 yrs 9 mos  
 Palo Alto, CA

Managed multiple outsourced IC design teams to produce a 50meter USB3.0 active optical cable. ( <http://www.amazon.com/Corning-Optical-Cable-Meter-32-8/dp/B00JOJRF6K> ) Multiple PCB designs, firmware and algorithm development for an innovative optical touch screen. Simulation, Microchip PIC circuit design and programming. Test fixture design, IC characterization: BERT/TDR/Oscilloscope/Spectrum Analysis/Protocol Testing.

---

**consultant**  
 Adema Technologies  
 Jan 2005 – Jan 2012 • 7 yrs 1 mo  
 Palo Alto, CA

R&D for Czochralski (CZ) silicon crystal growth furnace. Responsible for design of industrial control system for 150KW vacuum furnace and crystal growth pull rate servo.

---

**Principal Project Engineer**  
 Agilent Laboratories  
 1982 – 2004 • 22 yrs  
 Palo Alto, CA

Principal Designer for a 10 Gb/s TX,RX chipset, Architect for a 24x24 2.4Gb/s non-retimed crossbar, Contributed to the architecture of a megapixel CMOS display IC, Contributed to circuit architecture of a novel homodyne radio chipset, Principal designer for a 2.488 Gb/s CDR, Principal designer for a 1.5 Gbit/second Link Interface Chipset. Worked with a team of 3 other engineers to bring G-Link chipset to successful product release. Invented and worked with IEEE 802.3ae committee to have 64b/66b line code adopted as a standard for the 10Gb Ethernet Standard. Served International Solid State Circuits Conference Program Committee from 1993 to 2004, and as guest editor for the Dec. '94 Journal of Solid State Circuits.

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**Principal Project Engineer**  
 Agilent Technologies  
 1991 – 2003 • 12 yrs  
 Palo Alto, CA

High Speed Serial data transmission circuits

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**Principal Project Engineer**  
 Hewlett-Packard  
 1981 – 2001 • 20 yrs  
 Palo Alto, CA

High Speed Serial data transmission circuits

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**Principal Project Engineer**  
 HP Labs  
 1981 – 2000 • 19 yrs  
 Palo Alto, CA

High speed serial data transmission circuits

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**Member Technical Staff**  
 Hewlett-Packard Laboratories  
 1981 – 1991 • 10 yrs

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### Education




#### California State University-Chico

Master's Degree, Computer Science, 3.95 out of 4.0, graduated with distinction  
1988 – 1992


Activities and Societies: Thesis: "The design and implementation of a Chipset for Gigabit/second Computer Networks".

Parsing, Compiler design, ADA, Prolog, Expert Systems

#### Media (1)



**The Design and Implementation of a Chipset for Gigabit/Second Computer Networks**




#### Caltech

BS, Engineering and Applied Science  
1978 – 1981

Activities and Societies: Caltech Men's Glee Club. Designed a 64-port phone system for my dorm. Was in use for 10 years at Blacker House, Caltech.

Physics, Chemistry, Calculus, Complex Analysis, Circuit Design, RF Circuits.

### Volunteer Experience



#### Founder

AHA! Center

Jan 2003 – Jan 2003 • 1 mo

Education

Founded 501-c3 AHA! Community Center in Palo Alto. Opened the AHA! Inventor's Workshop Program in April 2005 for teaching creative thinking to high-school students. Ran two summer camps, one on site and one in a camp setting.

### Featured Skills & Endorsements

Electronics · 28



Endorsed by James Williamson and 3 others who are highly skilled at this



Endorsed by 2 of Rick's colleagues at Corning Incorporated

C · 19



Endorsed by Daniel Abramovitch, who is highly skilled at this



Endorsed by 4 of Rick's colleagues at Agilent Technologies



Home
17
6
4
Profile
Grid

Rick is also good at...

- R&D · 16
- IC · 8
- Linux · 4
- Sensors · 3
- Debugging · 2
- SPICE simulation · 1
- Electrical Enginee... · 1
- RF · 1
- Analog · 1
- Programming · 11
- Circuit Design · 5
- Unix · 4
- Testing · 3
- Sh · 1
- Manufacturing · 1
- Firmware · 1
- Engineering
- Simulations · 8
- Embedded Systems · 5
- Semiconductors · 4
- RF design · 2
- Microchip PIC · 1
- SPICE · 1
- PCB Design · 1
- Assembly · 1

See fewer skills ^

### Accomplishments

#### 30 Patents

Integrated circuit for facilitating optical communication between electronic devices • Apparatuses, systems, and methods for facilitating optical communication between electronic devices • Multi-phase sampling • Coding method for coding packetized serial data with low overhead • Network monitoring system with built-in monitoring data gathering • Data communication system with self-test facility • Electro-optical material-based grey scale generating method • Adaptive decoder for skin effect limited signals • Multiplexer with channel sectioning, selectively actuated current sources, and common-base amplifiers • Personal viewing device with system for providing identification information to a connected system...

#### 1 Project

High Speed Active Optical Interconnects

### Interests



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28,041 members



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13,595 members



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