

Ray Schuler - Electrical, Software, and Mechanical Engineer

CONTACT INFORMATION

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ENGINEERING

Analog Circuit Design

Board and Chip Level Design, CMOS/BiCMOS/GaN, Transceivers, Switch Mode Power Supplies, Charge Pumps, High Voltage Drivers, Analog to Digital Conversion, Precision References

Software Development

Robotic Control, Embedded Systems, DSP, Simulation, Product Characterization, Statistical Inference, Library and API development

Analog/Digital Systems Design

Hot Word Detector, Ultrasonic TOF Ranging, Low Noise RF Gate Control, Parametric Measurement, Thermal Management, MFG Tool Automation, Optical Characterization

Mechanical Design

Robotic Lawn Mower Chassis, Laser Alignment Fixture, Product Prototyping, 3D Modeling, Additive Manufacturing Techniques

COMP SCI

Languages

C, C++, Go, Python, R, Matlab, Bash, Lisp

Systems Deployment and Admin

Unix/Linux (Redhat/Centos, Debian/Mint, OSX, Alpine), Windows, Cadence Design Suite

Engineering Tools

Git, GCC, Unix ABI, Cadence Spectre/Virtuoso, LTSpice, Freecad, LaTeX

PROJECTS

Recent Educational Projects

Voice Controlled Lamp (Golang, Pico) [Project Link](#)
Ultrasonic Rangefinder (C/C++, Pico) [Project Link](#)

IBM/Globalfoundries 2008 - 2021

Senior Analog Circuit Designer, Software Team Lead,
Product Development and Characterization, Software Development in C/C++, Python, Lisp,
Semiconductor Modeling, Customer Reference Designs,
Development and Implemented of STDF Compliant API,
RF Transceiver Antenna Switch Controller App Note [Link](#)

Linear Technology 2002 - 2008

Senior Analog Circuit Designer, Interface Products, Field Fail Analysis Correction,
Designed First Commercial RS485 Transceiver with Integrated Termination [Article Link](#)

Champlain College 2012 - 2014

Adjunct Professor, Unix Systems Programming, Collaborative FOSS Software,
STEM Tutoring

EDUCATION

Michigan Technological University, Houghton, MI USA
BSEE Microelectronics and Control Systems

National Technological University, USA

VLSI Design (UMN), Analog Circuits (MIT), Computer Graphics (UMASS),
Complex Variables (Vassar), Semiconductor Device Physics (Syracuse)

Thank you for your time. References available upon request