

Ray Schuler - Electrical, Software, and Mechanical Engineer

CONTACT	<i>E-mail:</i> schuler@usa.com <i>Voice:</i> (802) 310-2905 <i>Github:</i> github.com/schuler-robotics
ENGINEERING	Analog Circuit Design Board and Chip Level Design, CMOS/BiCMOS/GaN, Tranceivers, Switch Mode Power Supplies, Charge Pumps, High Voltage Drivers, Analog to Digital Conversion, Precision References Software Development Hardware 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 Chasis, 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	Personal Voice Controlled Lamp (Golang, Pico) Link Ultrasonic Rangefinder (C/C++, Pico) Link Generative Art (Python, C++) Link IBM/Globalfoundries 2008 - 2021 Senior Analog Circuit Designer, Product Development and Characterization, Engineering Team Lead and Mentor (BTV, Shanghai, Bangalore), Software Development in C/C++, Python, Lisp, Semiconductor Modeling, Customer Reference Designs, Development and Implementation of STDF Compliant API, RF Tranceiver Antenna Switch Controller Link Linear Technology 2002 - 2008 Senior Analog Circuit Designer, Interface Products, Field Fail Analysis Correction, Designed First Commercial RS485 Transceiver with Integrated Termination Link Champlain College 2012 - 2014 Adjunct Professor, Unix Systems Programming, Collaborative FOSS Software, STEM Tutoring Link
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.