		Basic	Intermed	Adv	Want to Learn
Software					
Dev. methods		1			
Dev. Environ.			1		
Config. Mgmt.		1			
Debug tools		1			
Create Code			1		
Flowchart			1		
Protocols			1		
Data security		1			
Database					
Electrical					
Power devices		1			
Filters		1			
Amplifiers		1			
Comms		1			
Power supply		1			
Converters		1			
Logical			1		
Simulation		1			
RF devices		1			
Prog. devices					1
Computing					
Single board					1
Operating Sys		1			
Interfaces				1	
Networks				1	
Microprocessor					1
Microcontroller					1
General					
Prog. Controller					1
I/O modules		1			
Sensors					1
Actuators					1
Motors		1			
Solenoids					1

Engr. Business					
Requirements		1			
Trade Study		1			
Diagraming		1			
Tech Writing		1			
Communication		1			
Statement of Work		1			
Conduct Research					
Library			1		
Tech Journals			1		
Market			1		
Product analysis					1
Regulatory					1
Standards					1
Project Mgmt					
Team organization			1		
Minutes			1		
Metrics		1			
Schedule			1		
Cost			1		
Tracking			1		
Visibility			1		
Presentation			1		
Reporting			1		

		Need intro	Have used	Can teach	Want to Learn
Oscilloscope		1			
Logic Analyzer		1			
DVM		1			
Current probe		1			
Freq. Analyzer		1			
Spectrum Analyzer		1			
Device programmer			1		
Soldering iron			1		
De-soldering station		1			
Breadboard			1		
Point-to-point					1
Perf-board					1
3-D Printer					1

Laser Cutter					1
PCB Design					1
PCB Manufacture					1
Component level troubleshooting					1

This is about your experience level in various catagories. There are no right or wrong answers! This is a self-assessment scale, and each person may have a different 'value' for what basic, intermediate, and advanced means.	
Agile, SCRUM, Waterfall, Lean, Feature Driven, etc.	
exposure to build, test, debug, compile, etc.	
processes, tools, methodologies	
simulators, emulators, probes, etc.	
exposure Java, JSON, C++, C#, etc.	
standard symbology, can you prototype code with flowchart	
comms, streams, templates, patterns, etc.	
data at rest, during transport, I&A levels, etc.	
Oracle, Sybase, MS-SQL, SQL, Access, etc.	
FET, IGBT, NPN/PNP, MOV, etc.	
line, tank trap, HF noise, ripple, etc.	
band pass, low pass, power line, HF, LF, etc.	
communications over a serial bus of some kind, voip, slip, etc	
linear, switching, buck, boost, etc.	
analog to digital, digital to analog, voltage to current, etc.	
basic gates and respresentation via schematic	
schematic capture to sim, VHDL to sim, etc.	
antenna design, bluetooth, wifi, walkies, etc.	
FPGA, PLD, PLA, SOC, etc.	
optimized for specific use, general purpose, etc.	
Windows, Unix, RTOS, etc.	
OSI reference model,	
star, token ring, bus, line, tree, mesh, etc.	
RISC, multi-core, low power, 8/16/32/64 bit, multi-thread	
on-board peripherals added to microprocessor	
state machines, RLL, ladder, etc.	
dry contact in/out, AC in/out, DC in/out, analog in/out, etc.	
capacitance, ultrasonic, IR, inductive, light, heat, etc.	
linear, push-pull, rotational, etc.	
DC, brushless, AC, stepper, etc.	
translate ele to mech, control flow, control power, etc.	

the life cycle of requirements from gathering to final test	
how-to do, when to do, making decisions on	
flow, acquisition, resource, etc.	
style, grammar, user manuals, etc.	
how to present to different kinds of audiences	
seen one, written one, used one, etc.	
reference library vs all things Google	
where to look for specific industry tech data	
how to find the market for a specific kind of device	
how to compare and weight features	
Gov, industry, agency, compliance, restrictions, etc.	
best practices, fielding devices, industry standards, etc.	
