

		Basic	Intermed	Adv	Want to Learn
Software					
Dev. methods			1		
Dev. Environ.				1	
Config. Mgmt.			1		
Debug tools			1		
Create Code			1	1	
Flowchart			1		
Protocols			1		
Data security			1		
Database					1
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

		Basic	Intermed	Adv	Want to Learn
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

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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 representation 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.			

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