		Bob Hay	
	1213 E. Kimberley Ln. Boise, ID 8	33712 208-850-5230 roberthay@boisestate.edu or rhay@allosys.com November 2013	
Education	Ph.D., Electrical and Computer Engineering, 2009		
	Boise State Universit	y, Boise, ID	
	Major focus: Circuits	; Minor focus: Signal Processing	
	Dissertation: "Wideb	and Digitally Tunable SAW Resonator"	
	MBA, major in Management, 1972		
	Santa Clara University, Santa Clara, CA		
	MSEE, focus on controls and communication systems, 1968		
	Carnegie Mellon University, Pittsburgh, PA		
	BSEE, minor in econor	mics, 1967	
	Carnegie Institute of	Technology, Pittsburgh, PA	
Experience	1997 to present:		
	President, AlloSys C	orp, Boise, ID	
	RF/wireless/radar technology research, development, and test; system design and signal integrity		
	Signal and imag	e processing and complex data analysis.	
	Remote telemetry and sensor systems.		
	2006 to May, 2013:		
	Special Lecturer, Boise State University, Boise, ID		
	Courses taught: ECE 210 ECE 212 ECE 212L ECE 310 ECE 310L ECE 480 ECE 482 ECE 513/413 ECE 551/451 ECE 560 ECE 597/497	Introduction to Circuits Circuit Analysis and Design Circuit Analysis and Design Lab Microelectronic Circuits Microelectronic Circuits Lab Senior Design Project I Senior Design Project II RF Design Communication Systems Linear Systems Signal Integrity	
	Managed Senior Des	ign Project Lab	
	Faculty Advisor, BS Gravitational effect Gravitational modu	U/NASA Microgravity Projects: ts on soil impedance (2009-2010) llation of calcium flux in bone (2010-2011)	

Retired as Professor Emeritus.

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	1968 to 1997:	
	Hewlett Packard, Palo Alto, CA and Boise, ID	
	R&D Project Manager in projects including:	
	RF/Microwave instrumentation product development	
	Laser and Inkjet print technology and product development	
	Optical and magnetic storage technology and product development	
Patents granted	7,932,789 Frequency-Adjustable Surface Acoustic Wave Oscillator.	
	6,239,879 Non-contacting communication and power interface between a printing engine and peripheral systems attached to replaceable printer component.	
	5,239,431 Head lift limiter for a disk drive.	
	4,716,423 Barrier layer and orifice plate for thermal ink jet print head assembly and method of manufacture.	
	4,694,308 Barrier layer and orifice plate for thermal ink jet printhead assembly.	
	4,590,482 Nozzle test apparatus and method for thermal ink jet systems.	
	4,535,343 Thermal ink jet printhead with self-passivating elements.	
	4,408,865 Corona discharge device for electrophotographic charging and potential leveling.	
	4,197,493 Electrostatic voltmeter.	
	3,643,126 Frequency-measuring system utilizing means for momentarily stopping the variable frequency generator.	
Publications	Robert R. Hay, "Digitally-Tunable Surface Acoustic Wave Resonator," Dissertation, 2009, available at http://scholarworks.boisestate.edu/td/58/.	
	Bill Elder, Bob Hay, "Formulating Bluetooth Manufacturing Test Strategies," <i>Evaluation Engineering</i> , pp. 20-25, September 2001.	
	Robert R. Hay, "Six Steps to a Printed Page," <i>Hewlett Packard Journal</i> , pp. 6-7, June 1982	
	Robert R. Hay, "Versatile VHF Signal Generator Stresses Low Cost and Portability," <i>Hewlett Packard Journal</i> , pp. 18-24, March 1974	
	Patrick J. Barrett, Robert R. Hay, and Paul G. Winninghoff, "Adding More Precision to Spectrum Analyzer Measurements," <i>Hewlett Packard Journal</i> , pp. 10-16, July 1970	

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Research interests	Adaptive and reconfigurable RF Circuits and Systems
	Remote telemetry, sensors, radar, and communication systems
	Signal and image processing and complex data analysis
	Wideband tunable Surface Acoustic Wave (SAW) devices
	Novel interdisciplinary RF and wireless system solutions
Membership	Senior life member, IEEE.
	Idaho Society of Professional Engineers (License 14245)
References	References are available on request.

Bob Hay