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Education:

University of Hawaii:	Ph.D. in Experimental Physics, 1999
Boston University:	M.A. in Experimental Physics, 1995
Boston University:	B.S. in Electrical Engineering, 1989

Professional Employment:

2010-present	Associate Professor of Physics and Astronomy, University of Hawaii
2005-2010	Assistant Professor of Physics and Astronomy, University of Hawaii
2002-2005	Director, Instrumentation Development Laboratory, University of Hawaii
2000-2002	Senior Scientist, AOptix Technologies Campbell, California (silicon valley)
1998-2000	EE/Physicist, University of Hawaii, University of Hawaii
1997-1998	Visiting Researcher CMS Exp., CERN & L.I.P. Portugal, based at CERN
1995-1997	Research Associate, University of Hawaii
1992-1995	Senior Electrical Engineer/Physicist, Boston University & SSC Lab.
1989-1992	Research Associate, Boston University

Selected Recent Publications :

1. J-F. Genat, **G. Varner**, F. Tang, H.J. Frisch, "Signal Processing for Pico-second Resolution Timing Measurements," *Nucl. Instr. Meth.* **A607** (2009) 387-393. arXiv:0810.5590.
2. **G. Varner** and L. Ruckman, "Sub-10ps Monolithic and Low-power Photodetector Readout," *Nucl. Instr. Meth.* **A602** (2009), 438-445. arXiv:0805.2225.
3. H. Hoedlmoser, **G. Varner** and M. Cooney, "Hexagonal pixel detector with time encoded binary readout," *Nucl. Instr. Meth.* **A599** (2009) 152-160.
4. J. Benitez, D.W.G.S. Leith, G. Mazaheri, B.N. Ratcliff, J. Schwiening, J. Vavra, L. Ruckman and **G. Varner**, "Status of the Fast Focusing DIRC (fDIRC)," *Nucl. Instr. Meth.* **A595** (2008) 104-107. SLAC-PUB-13104.
5. **G. Varner**, L. Ruckman and A. Wong, "The First version Buffered Large Analog Bandwidth (BLAB1) ASIC for high luminosity collider and extensive radio neutrino detectors," *Nucl. Instr. Meth.* **A591** (2008) 534-545. arXiv:0802.2278
6. **G.S. Varner**, L.L. Ruckman, P.W. Gorham, J.W. Nam, R.J. Nichol, J. Cao, M. Wilcox, "Large Analog Bandwidth Recorder And Digitizer with Ordered Readout (LABRADOR) ASIC," *Nucl. Instr. Meth.* **A583** (2007) 447-460. physics/0509023
7. E. Martin, **G. Varner**, A. Koga, L. Ruckman, P. Onaka, J. Tonry and A. Lee, "High Voltage CMOS Control Interface for Astronomy-Grade Charged Coupled Devices", *Journal of Instrumentation*, Volume **3**, P12003 (2008). arXiv:0806.0223

8. **G. Varner** and L. Ruckman, “The PRO1 ASIC for Fast Wilkinson Encoding”, *Journal of Instrumentation*, Volume 3, P12003 (2008). arXiv:0809.0543
9. **G. Varner** and L. Ruckman, “A Monolithic Time Stretcher for Precision Time Recording”, *Journal of Instrumentation*, Volume 2, P04006 (2007). physics/0701275
10. **G. Varner**, “The Modern FPGA as Discriminator, TDC and ADC”, *Journal of Instrumentation*, Volume 1, P07001 (2006).

Synergistic Activities :

1. Large-area, pico-second timing Photodetector development Collaboration [Argonne, LBNL, Univ. Chicago, Univ. Hawaii, SLAC collaboration]
2. Coded-aperture imager for beam bunch diagnostics at a high intensity electron storage ring [Cornell Univ., KEK and Univ. Hawaii collaboration]
3. Fast Focusing Direct Internal Reflected Cherenkov (DIRC) detector development for Particle Identification at a Super B factory in Italy [Univ. Cincinnati, Univ. Hawaii and SLAC collaboration]
4. Imaging Time Of Propagation detector development for Particle Identification at a Super B factory in Japan [Univ. Cincinnati, Univ. Hawaii, KEK, Nagoya Univ. collaboration]
5. AGIS telescope readout ASIC [TARGET] development [U. Chicago, Wash. U (St. Louis), Univ. Hawaii, SLAC collaboration]