John T. Anderson

High Energy Physics Division
Argonne National Laboratory
Argonne, IL 60439

Phone: 630-252-6081
Fax: 630-252-5047
E-mail: jta@anl.gov

Education:

B.S.E.E., University of Wisconsin – Madison, 1981

Professional Employment:

Principal Engineer, ANL (2013-present)
Engineer, ANL (2006-2013)
Engineer III, Fermilab (1989-2006); Associate Head, Electrical Engineering Department (2000-2006)
Engineer, LeCroy Corporation (1985-1989)
Engineer, University of Wisconsin Physical Sciences Laboratory (1983-1985)
Teacher, Wisconsin School of Electronics (1982)
Engineer, Lunar Radiation Corporation (1981)

Awards, Memberships, and Professional Service:

Member, FRIB Data Acquisition Working Group (2012-present)
Member, NIM committee, NIST (1993-1994)
Member, VME International Trade Association (1992)
Publications (9)
Additional published conference proceedings (13)
Unpublished technical reports (20)

Selected Research Accomplishments:

Engineer, University of Wisconsin, CDF TDC modules, Run I at Fermilab (1983-1985).
Engineer, FASTBUS memory module, used in all fixed target experiments at Fermilab (1986-1987).
System Engineer, DART data acquisition system, Fermilab Run II (1990-1993)
Lead Engineer, development of Analog Front End electronics, D-Zero Central Fiber Tracker, Run II Upgrade at Fermilab (1995-1999).
Project Electrical Engineer for the D-Zero experiment, operational responsibility for all electronics systems in the experiment, (1999-2005).
Project Engineer, design and production of trigger system for GRETINA, (2006-2008).
Lead Engineer, VERITAS trigger upgrade (2007-2010)
Lead System Engineer, design and production of new data acquisition and trigger systems, Digital Gammasphere, DFMA, X-Array & HELIOS detectors (2009 - present)
Lead Engineer, FTK Level2 Interface Card (ATCA data processor), LHC-ATLAS (2013 - present)

Selected Publications:

1. **"A New ATCA-Based Data Processor for Track Processing in HEP Experiments",** Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC), 2014 IEEE
2. **"A digital data acquisition system for the detectors at Gammasphere" ,** Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC), 2012 IEEE
3. "**Implementation and performance of the electronics and computing system of the Gamma Ray Energy Tracking In-Beam Nuclear Array (GRETINA)".** Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC), 2011 IEEE
4. **"Field tests of a new high-speed pattern recognition trigger for ground-based gamma-ray telescope arrays".** Nuclear Science Symposium Conference Record (NSS/MIC), 2009 IEEE
5. **"Data Acquisition and Trigger System of the Gamma Ray Energy Tracking In-Beam Nuclear Array (GRETINA)"**. IEEE Transactions on Nuclear Science, Vol. 56, No. 1, February 2009.
6. **"The D0 Central Track Trigger"**; IEEE Trans.Nucl.Sci.51:345-350,2004.