

Dr. Clyde A. Lettsome, Ph.D., P.E., M.E.M.

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Objective: To obtain contract, consulting, and research opportunities in the hardware, software, firmware, and management aspects of Electrical and Computer Engineering, especially in the area of digital signal and image processing.

Education: **Georgia Institute of Technology (Georgia Tech.)**, Atlanta, GA
Ph.D. in Electrical and Computer Engineering Focus: Signal and Image Processing
Florida Institute of Technology, Melbourne, FL
M.S. in Electrical and Computer Engineering Focus: Systems and Information Processing

Licenses: Professional Engineer (P.E.) – Licensed by the Florida Board of Professional Engineers (No. 58671) and Georgia Board of Professional Engineers and Land Surveyors (No. PE037411)

Programming Languages: C/C++, Basic, Texas Instrument TMS320C DSP Machine Assembly, Analog Devices ADSP 2100 Machine Assembly, PIC18

Computer Programs: Matlab, Max Plus II, Code Composer Studio, Synplify, Actel Designer, ModelSim

Relevant Employment Experience: **Lecturer, Researcher, and Consultant** – C.A. Lettsome Services LLC
Develop and conduct preparatory and continuing education classes as well as perform research and consulting in the area of Electrical Engineering and Engineering Management. *Jan. 2011 – Present*

Post-Doctoral Researcher – Georgia Institute of Technology
Perform research on pavement distress images and to develop new software to automatically detect and segment pavement distress. *June 2009- August 2011*

Research Assistant – Georgia Institute of Technology
Lead and perform cutting edge research in the area of image compression, video, and image interpolation (digital zooming). *Aug. 2006-March 2009*

Teaching Assistant/Lab Instructor – Georgia Institute of Technology
Teach students the basics of DSP and assist with DSP labs that include DSP applications and concepts in Matlab for the class ECE2025. *May 2006-Aug.2006*

Electrical Engineer (Technical skill level 2) – Rockwell Collins
Design, test, and verify hardware and firmware designs especially digital and DSP designs used in avionic communication radios, navigation & landing units, and other systems for military and commercial avionics. *July 1999 – Aug. 2001*

Projects: **Georgia Institute of Technology**, Atlanta, Georgia

- Researched and developed a subband coding method called Fixed-Analysis Adaptive-Synthesis Filter Banks.
- Researched and developed a new method for performing digital image resizing that removes ringing distortion from edges throughout an image.

Rockwell Collins, Melbourne, Florida

- Ported code for Mode-2 receive DSP firmware from VHF communication Radio (Analog Devices Signal Processor) to a VHF-Data Link (TI Signal Processor).

Professional Organizations: Institute of Electrical & Electronic Engineers (IEEE) Member
Eta Kappa Nu International Honor Society

Updated: 12/20/2012