

Session 1:L-3 Communications Clinic #1Officer's Club South"AOA-Enabled Active Localization and Tracking in Buildings"

- 2:45 Brandt Hammer "Localization without GPS: Hardware Development"
- 3:05 Chinh Dam "Introduction to Data Collection"
- 3:25 Eliza Crandall—"Data Analysis and Further Design Requirements"
- 3:45 Yi Xu "Fourier Transform Algorithm and Angle Error Calculation"
- 4:05 Brian Matthews "Localization Algorithm"

Session 2: L-3 Communications Clinic #2 "Dielectric Measurement Tools"

Officer's Club West

- 12:45 Jacob Tateoka "Introduction, and Theory of the Split Post Cavity"
- 1:05 Rohit Pathak "Split Post Measurements and Results"
- 1:25 Beau Lund "Resonant Cavity Redesign and Theory"
- 1:45 Eric Seabury "Resonant Cavity Testing Procedure and Measurement Results"
- 2:05 Brian Rolfe "Resonant Cavity Design and Analysis Software"

Session 3: Micron Technology, Inc. Clinic Officer's Club North "Analysis and Optimization of Multi Gb/s Chip-to-Chip Communication"

- 12:45 Raheem Alhamdani "Introduction and Motivation for Modeling and Verification of Interconnects"
- 1:05 Bryson Kent "Worst Case Verification of High Speed Interconnects"
- 1:25 Jordan Kemp "Statistical Analysis of Electrical Signaling"
- 1:45 Lucas Loero "Modeling Jitter in Chip-to-Chip Communication"
- 2:05 Ben Meakin "Project Software Engineering, Development and Results"

Session	4: Rocky Mountain Power Clinic "Power Quality Event Demonstrator (PQED)"	Officer's Club South
12:25	Stephen Manrique — "PQED Solution Overview"	
12:45	Calvin Yan — "FPGA"	
1:05	Lance Wayment — "Mechanical System and Control"	
1:25	Jack Dam — "Solid-State Relay"	
1:45	Jason Wayment — "Satellite Modules and Safety"	
Session	5: Sandia National Laboratories Clinic "Low-Power, Context-Aware Global Positioning System"	Officer's Club North
3:05	Rashin Bolkameh — "Introduction to GPS Tracking System and Project	History"
3:25	Chris Chadwick — "Hardware Design"	
3:45	Michael B. Stevens — "Board Design"	
4:05	Daniel Rolfe — "Programming the Utah GPS Stack"	
4:25	Eric Hsu — "Testing and Results"	
Session	6: ON Semiconductor Clinic "Characterization of Bonding Stress on Analog Integrated Circuit Performance"	Officer's Club West
2:45	Mike Bombardier — "Bond Over Active Circuitry Project Overview"	
3:05	Nikhil Handa — "Bond Over Active Circuitry Failure Analysis"	
3:25	Jay Walston — "Bond Over Active Circuitry Data Analysis"	
Session '	7: Richard Grow Project "A Study in Vacuum Tube Field Emission from a C60 Coated Cathode"	Officer's Club West
4:05	Seaver W. Cauch — "Physics and Physical Description of C ₆₀ Coated Pa	Illadium Cathode"
4:25	Paul Beard — "Attaching C_{60} to a Cathode for Testing"	
4:45	Doug A. Tucker — "Field Emission Characteristics of a C ₆₀ Cathode"	
5:05	Stephen Pendrey — "Finding the Current"	

Session	8: Individual Projects – Dr. Om Gandhi Guest House Meeting Room E Electrical Engineering – Electromagnetics: Applications	
12:25	David Chick — "Multiple Band Microstrip Patch Antenna for Cell Phones: Analysis and Design"	
12:45	Bryce Gardiner — "Multiple Band Microstrip Patch Antenna for Cell Phones: Fabrication and Experimental Results"	
1:05	Jacob Mattson — "77 GHz Automobile Radar"	
1:25	Michael J. Beck — "Magnetic Coil Design for Wireless Neural/Cardiac Stimulation"	
	— BREAK —	
2:05	Jason R. Saberin — "Reduced Coupling Configurations of Antennas for Improved Channel Capacity"	
2:25	Fernando Nelson — "HFSS Simulation of an X-Band, Radial Waveguide Band-Stop Filter"	
2:45	Brian M. Wynn — "Non-Destructive Measurements of Dielectric Materials Using an HFSS- Simulated TE013 Mode Cylindrical Cavity"	
3:05	Quinn Tate — "Design and Testing of a 16-Channel Coil Array for Improved Carotid Artery Imaging"	
	— BREAK —	
3:45	Bindu Dudipala — "Fabrication of Dye-Sensitized Nanocrystalline Solar Cells"	
4:05	Beena Dudipala — "Optically-Transparent Antenna for Automobile Applications"	
4:25	Jason Weaver — "Multichannel Secret Key Generation"	
Session	9: Individual Projects – Dr. Priyank Kalla Guest House Meeting Room A Electrical Engineering	
3:05	Chase Thompson — "Automobile Wiring Fault Locator: Noise Characterization and Interface"	
3:25	Jordan Nicholls — "Automobile Wiring Fault Locator: Simulation and Algorithm Development"	
3:45	Chad Mann — "Automobile Wiring Fault Locator: PCB Design and Software Integration"	
4:05	Justin Ferguson — "Automobile Wiring Fault Locator: Conclusion and Test Bench"	
	— BREAK —	
4:45	Arash Farhang — "Distributed Spectrum Sensing for Cognitive Radio"	
5:05	Daryl L. Wasden — "A Distributed Spectrum Sensing Model for Cognitive Radio"	
5:25	William Peter Blackham — "Translating Glove for American Sign Language"	

Session 10: Individual Projects – Dr. Angela Rasmussen Electrical and Computer Engineering

- 12:05 Glenn Barton "Development and Implementation of Control Logic Simulation Methods"
- 12:25 Stephen Sieb "The \$20 Oscilloscope"
- 12:45 Matthew M. Maddex "Analog Maximum Power Point Tracking Circuit"
- 1:05 Gregg Durrant "Miniature Remote Controlled Conduit Vehicle"
- 1:25 Isaac D. Jensen "Simple Video Streaming Viewer"
- 1:45 Shahene A. Pezeshki "Engineering Education: Teleology Applied to Electrical Engineering High School Outreach"