

Spring 2008 - Projects based on Freescale i.MX21 with Linux OS

- CNC Milling Machine
- Video Processing Engine
- Remote Home Automation System
- Self-Navigating Vehicle
- Digital Audio Mixer
- Suspended Camera/Tracking System
- Accelerometer-based Wireless Game System

Spring 2007 - Projects based on Intel SA-1110 with Windows CE RTOS

- Ultrasonic Surveyor
- Ultrasonic Multilateration
- Remote Wireless Dimmer/IEEE Robot OCU
- Multi-Touch Interface
- Tracking System
- Active Camouflage System
- MP3 Audio Player
- PACMAN 2007

Spring 2006 - Projects based on Intel SA-1110 with Windows CE RTOS

- AMANDA Neutrino Detector Display System
- Ultrasonic Object Mapping System
- Laser Measuring Device
- Digital Audio Mixer
- Theater Lighting Control System
- Accelerometer-based Position and Orientation Sensor
- Pneumatic Source Management System

Spring 2005 - Projects based on Intel SA-1110 with Windows CE RTOS

- Pocket Ultrasonic Positioning System (PUPS)
- Apartment Security System
- Rock-em Sock-em Robots
- Remote Weather Station
- Box-and-Blocks Memory Game
- Electronic Stratego
- Golf Swing Analyzer (Albatross 9000)
- Paper-Rock-Scissors Game
- Walking Robot
- Heart Monitoring System

Spring 2004 - Projects based on Intel SA-1110 with Windows CE RTOS

- Telephone-Based Remote Control System (2)
- Electronic Labyrinth Game
- Automated Bartender
- MIDI-driven Synthesizer
- Keyboard Music Instruction and Feedback System
- Optically Targeted Coil-Gun System
- LED Color Organ
- Image Tracking System (used Linux)
- Voice Monitor for Parkinson's Patients
- Automatic Guitar Tuner

Fall 2003 - Projects based on TI TMS320C6711 DSP with DSP/BIOS RTOS

- Sip & Puff Character Drawing Machine
- Electronic Etch-A-Sketch
- Active Audio Equalizer
- Automobile Traction Control System
- Weather-based Alarm Clock

Spring 2003 - Projects based on Intel SA-1110 with Windows CE RTOS

- 3D Milling Machine
- Smart Home Control System
- MSI Logic Tester / Identifier
- Drawing Arm
- Braille Display
- Automated Liquid Ingredient Mixer
- Glove Controlled Car
- Guitar Player
- Museum Tour Guide

Fall 2002 - Projects based on TI TMS320C6711 DSP with DSP/BIOS RTOS

- Active Acoustic Beamformer (2)
- Ferrofluid Music Visualization Device

Spring 2002 - Projects based on Intel SA-1110 with Windows CE RTOS

- Electrocardiograph/Electromyograph
- Digital Audio Player
- Card Dealing Machine
- Security Access System
- Passive Acoustic Beamformer
- Image Tracking System
- Portable Digital Oscilloscope
- Closet Management System
- Coil Gun with Targeting System
- Wireless Home Alarm System