

EE80t List of Past Topics for Papers

Topics Highlighted in **Red** are Dangerous topics that have been covered in class. If you want to use one of these need to think of some more narrow aspect that has not been covered, topics in Yellow require caution, they have been partially covered and again you need to be careful not to rehash what has already been covered. You are not required to pick a topic off of this list. Don't hesitate to suggest something that interests you.

Air Purifier
Adaptive Optics
Amplification/sound modification
Amplifiers
Arcade Machines
Atomic batteries
Audio Compression
Audio Effects Pedals
Avionics
Blue boxes
Blue LEDs
Bluetooth Technology
Blu-ray DVDs
Cable Modems
Calculator
Electronics for Automobile Engines
Cardiac Defibrillators
CD Players
Cell phones
Communication Satellites
Data Storage
Digital Cameras
Drums
DVD Players
Echo location
Electric Cars
Electric Eels
Electric Guitar (need to be more specific than this)
Electric Musical Instruments
Electric trains
Electric Vehicles
Electronic Watch
Electroluminescence
Electronic Clocks
Electronic Fuel Injectors
Electronic Ignition
Electronic Music
Electronic Time Keeping
Electronics for Space Applications
Electronic Watches
Electromagnetic Rocket Engines
E-mail
Energy Scavenging
Fiber Optics

Flash Drive

FM Radio

Fuel Cell

Game Consoles

GPS

Green Energy

Guitar Amplifier

Guitar Effect Pedals

Ham Radio VOIP Applications

HDTV

Headphones

Holograms

Hybrid Vehicles

Industrial Robots

Ion ray gun

iPod/MP3

Electromagnetic Weapons

Lasers

Laser Printers

Laser TVs

Laser RADAR (LIDAR)

Liquid Crystal Displays (LCDs)

Lithium batteries

Magnetic Accelerator/ Rail guns

Magnetic Resonance Imaging (MRI)

Magnetically Controlled Automotive Suspension

Magnetically Levitated Trains

Marshall Tube Amp

Metal Detectors

Metal Oxide Semiconductor Transistors

Metal Oxide Semiconductor Capacitors

Micro Electro-Mechanical (MEM) Accelerometers

Micro Electro-Mechanical Systems (MEMs)

Microphones

MIDI Controllers

MIG Welder

Missile Guidance

Moog Synthesizer

MP3 Audio Compression

Music over the Internet

Music Synthesizers

Nanotechnology

Neon Lights

Nightvision

Nintendo Entertainment System

Noise Cancellation

Operational Amplifiers

Pacemakers

Particle Accelerators

Phased Array Antennas

Phonograph (careful, emphasize electronic aspects)

Photovoltaic Solar Cells

Plasma TVs

Pong Video Game

Power Plants

Printers

Quartz Crystal Oscillators

Quantum Computing

RADAR

RADAR Signal Processing

Radio Frequency Identification (RFID)

Rail gun/magnetic gun

Rechargeable Batteries

Remote Control

Robotics

Smart Cards

Solar Cells

Solar Energy

Sonar

Sonograms/Ultrasound

Stealth Technology/Advancement in Adaptive Optics

Super Nintendo Game System

Superconductors

Surround Sound

Theremin

Thermoelectric cooler (Peltier)

Touch Screen Technology

Ultra Capacitors

Unmanned Air Vehicles (UAVs)

USB

Video Cameras

Video game console

Vietnam War era Electronic Warfare

Wii Game Console

Wind power

Wireless Communications

X-ray Machines