

ECE 481 Attendance Quiz (October 11, 2007)

List products of ECE that involve safety or risk.

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| ----- automobiles (general) (39) | -- computer networking (2) |
| ----- avionics (30) | -- boats (2) |
| ----- power plants/generation (general) (24) | -- automobiles (hybrid/electric) (2) |
| ----- hospital/medical equipment (e.g., defibrillators, x-ray) (22) | -- airplane engines (e.g., turbines, scramjet) (2) |
| ----- power distribution/transmission/grids/maintenance (17) | -- air traffic control (2) |
| ----- brakes (e.g., ABS) (17) | -- air management (e.g., HVAC) (2) |
| ----- batteries and power supplies (e.g., for computers) (15) | -- Radar (2) |
| ----- appliances (15) | - weather monitoring (1) |
| ----- water treatment (14) | - weapons (nuclear) (1) |
| ----- fire alarms (12) | - utilities (1) |
| ----- waste management/sanitation (11) | - trains (1) |
| ----- traffic management (e.g., lights, monitoring cameras) (10) | - roller coasters (1) |
| ----- air bags (10) | - power tools (1) |
| ----- weapons (general, offensive and defensive) (8) | - power steering (1) |
| ----- factory/manufacturing systems (e.g., PLC) (8) | - oil refineries (1) |
| ----- power plants/generation (nuclear) (7) | - national security technology (1) |
| ----- home security (7) | - lighting (1) |
| ----- everything (7) | - lawn mowers (1) |
| ----- telephone and data infrastructure (including wireless) (6) | - inventory management/tracking (e.g., pharmaceutical shipments) (1) |
| ----- aerospace (e.g., shuttles and space suits) (6) | - information protection (e.g., encryption) (1) |
| ----- ground transportation infrastructure (e.g., roads, bridges) (5) | - ground-fault interrupters (GFI) (1) |
| -- open air/environment management (e.g., pollution scrubbers) (3) | - fuel lines (1) |
| -- elevators (3) | - exercise equipment (1) |
| -- computer operating systems (3) | - cell phones (1) |
| -- alternators/generators (e.g., back-up power for hospitals) (3) | - audio systems (1) |
| -- toys (2) | - GPS (1) |
| -- power train (e.g., automobile transmission) (2) | - BattleBots (1) |
| -- home wiring (2) | - ASIMO (1) |
| -- dams (2) | |
| -- construction (2) | |