**Engr 311 Assignments**

All of these assignments should include a bibliography page. This should be a separate page from the report. I want to see at least two sources for each paper. The paper should use a 12 point font and be single spaced.

1. Write a one page paper on one of the following female engineers
   * Emily Roebling
   * Beulah Louis Henry
   * Stephanie Louise Kwolek
   * Martha J. Coston
   * Lillian Gilbreth
   * Edith Clarke
   * Mary Anderson

The paper should include (but not limited to)

* What education they received.
* What work did they due
* What made them famous?

1. Write a one page paper on one of the following energy-efficient green buildings

* William J Clinton Presidential Library **(Little Rock, Arkansas)**
* Cor (Miami Florida)
* 101 California Hines Building (San Francisco CA)
* 1331 L Street (Washington D.C.)
* **McKinney Green Building (McKinney, Texas)**
* **1201 Third Avenue (Seattle, Washington)**
* **1800 Larimer Street (Denver, Colorado)**

The paper should include (but not limited to)

* Why is it energy efficient?
* What building methods did they use?
* Did they encounter any significant engineering problems during the design or construction?

1. Write a one page paper on one of the following engineering disasters.

* **Titanic (1912)**
* **St. Francis Dam flooding (1928)**
* **Hindenburg disaster (1937)**
* **Tacoma Narrows Bridge collapse (1940)**
* **Cleveland East Ohio Gas Explosion (1944)**
* **Hyatt Regency Hotel Walkway Collapse (1981)**
* **Space Shuttle Challenger disaster (1986)**
* **Chernobyl disaster (1986)**
* **Concorde Air France Flight 4590 crash (2000**
* **Space Shuttle Columbia disaster (2003)**

The paper should include (but not limited to)

* What happened?
* Why did it happen?
* What could have prevented it from happening?

1. Write a one page paper on

* Development and uses of Lasers
* Development of Post-it notes
* Development and use of Radar.
* Development of photocopying
* The building of the Erie Canal

The paper should include (but not limited to)

* Where was it developed?
* What prompted its development?
* Who invented it?

1. Write a one page paper on

* J.C. Maxwell
* C. Francis Jenkins
* Frank Conrad
* Sir Oliver Lodge
* Reginald Fessenden
* Ferdinand Porsche
* Hermann von Helmholtz
* Richard Drew
* William Moggridge
* Waldo Semon
* Willy Messerschmitt
* Michael Faraday
* Georges Claude
* William Friedman
* Hans Geiger
* Rudolf Diesel
* Enrico Fermi
* Irving Berlin Kahn
* Charles Richter
* Edward Howard
* George Westinghouse
* Willis Carrier
* Clarence Birdseye
* Dennis Richie
* Auguste-Arthur de La Rive
* Joseph Glidden
* Felix Wankel

The paper should include (but not limited to)

* What education they received.
* What work did they due
* What made them famous?