Final Project: Careers In Computer Science

Goal: Students will research a particular career/study area in the Computer Science field.

Assignment (Underclassmen or Seniors):

Study the list of Computer Science Careers on the next page.
For your final project, you must choose one of the careers on the next page and research the:
- Job duties
- Experience needed
- Education needed
- Certifications needed
- Languages/software used most often
- Average Salary
- FIND THREE JOB POSTINGS FOR THAT TITLE

Variation of Assignment (Seniors ONLY):

If you have already committed to a college and know what your major is, complete the above, but WITH YOUR COLLEGE AND MAJOR, and the careers offered from that. So, complete the same bullets as above but with YOUR college and chosen area of study. If you are not sure – then choose a career from the list on the next page.

Technical Requirements:

You must present ALL of this information using either a powerpoint OR PREZI presentation. For extra credit there will be a recording of you in the video. (you can use screencastify or some other free recording software to do this)

How you design the powerpoint or PREZI is up to you. It should be well-researched and presented.

Please note… Google slides will NOT be accepted for this assignment.

Getting Started:

Research the career you have chosen using the bullet points above, Create a Powerpoint or Prezi (you will need to create a Prezi Account if you haven't already), and add the link or upload into the discussion area of the assignment. If you would like extra credit, record your voice with your prezi or powerpoint and attach the video or a link to the video. (+5 for voice recording, +10 for using webcam and voice recording). A very simple recorder to use is screencastify (free until June 30th) – it's a google extension.

Total Time: <=90 minutes for 5 class days. (Feel free to work longer if needed)

Grading:

Requirement:	Points:
Career from List OR area of study in College(seniors only)	10%.
Research Completed	60%
Prezi or Powerpoint	30%
Base Grade:	**100%**
**Prezi or Powerpoint with YOU in the recording	Up to 10 bonus pts.
TOTAL:	**110 pts.**

**Extra Credit is offered for recording your voice presenting(+5) or using your webcam for presenting(+10)

Possible Career Choices to Research

- Computer Hardware Engineer
- Computer Systems Analyst
- Computer Scientist or Computer Science Researcher
- Full-stack Developer
- User Interface Designer
- Cloud Computing Engineer
- Information Security Analyst
- Computer Science Professor (or teacher)
- Chief Information Security Officer
- Game Designer/Developer or Gameplay Programmer
- Mobile Application Designer or Developer
- Artificial Intelligence or Machine Learning Engineer
- Robotics Engineer
- Software Developer
- Software Test Engineer (STE)
- Software Development Manager
- Software Quality Assurance Manager
- Software Architect
- Programmer Analyst
- Systems Developer
- Web Developer
- Software Development Engineer, Test (SDET)
- Application Support Analyst
- Computer Systems Analyst
- Database Administrator (DBA)
- Systems Administrator
- Systems Engineer
- Systems Analyst
- Network Administrator, IT
- Network Engineer, IT
- Business Analyst
- Program Manager, IT
- Information Technology Specialist

**If there is something left off this list related to Computer Science fields and you would like to pursue the information for that career, you must send me an email FROM YOUR SCHOOL EMAIL ADDRESS TO MINE TO GET APPROVAL.