

Assignment ... Interview an Engineer



Action	Description
<p>Recall your interview:</p>	<p>Anything you learned that you want to share? Knowledge, Skills, Attitudes?</p>
<p>Does the items done during the day, fit into the Design process described in the Framework</p> <ol style="list-style-type: none"> 1. Identify the need or problem 2. Research the need or problem <ul style="list-style-type: none"> • Examine current state of the issue and current solutions 3. Develop possible solution(s) <ul style="list-style-type: none"> • Brainstorm possible solutions • Draw on mathematics and science • Articulate the possible solutions in two and three dimensions • Refine the possible solutions 4. Select the best possible solution(s) <ul style="list-style-type: none"> • Determine which solution(s) best meet(s) the original requirements 5. Construct a prototype <ul style="list-style-type: none"> • Model the selected solution(s) in two and three dimensions 6. Test and evaluate the solution(s) <ul style="list-style-type: none"> • Does it work? • Does it meet the original design constraints? 7. Communicate the solution(s) <ul style="list-style-type: none"> • Make an engineering presentation that includes a discussion of how the solution(s) best meet(s) the needs of the initial problem, opportunity, or need • Discuss societal impact and tradeoffs of the solution(s) 8. Redesign <ul style="list-style-type: none"> • Overhaul the solution(s) based 	<p>Which of the 8 elements was she/he doing and why do you think that?</p>

<p>on information gathered during the tests and presentation</p>	
<p>Engineers who work in other roles versus just a design engineer use a modified process that fits their needs. Listed below are some of the other jobs for engineers:</p> <ul style="list-style-type: none"> • Manufacturing and Support Engineering • Development of future tools, planning, etc. • Training • Developing cost models, component analysis. • Customer service planning and execution for general products • Management • Sales Engineering • Reliability & Safety engineering 	<p>Does your Engineer fit here? Explain your thoughts.</p>
<p>What are the similarities and dis-similarities of Engineering profession the education Profession/</p>	<p>Explain your thoughts?</p>
<p>Did you discuss any of the values with them?</p>	<p>Describe what you heard.</p>
<p>end</p>	