***IED Skills Inventory Name: Major: Section Date:***

**Part 1.** *Check each item in the lists of this inventory that apply to you. Place count of checked items in box at bottom of column.*

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **MANAGEMENT/****LEADERSHIP** |  | **MECHANICAL** |  | **MODELING/****COMMUNICATION** |  | **ELECTRONICS/** **COMPUTER CONTROL** |
|  | I want to learn more about managing a team.. |  | I want to learn more about designing & building mechanical devices |  | I want to learn more about presenting, engineering models, tech writing, CAD. |  | I want to learn more about designing & building electronic circuits |
|  | I have worked as a member of a team or played on a school sports team. |  | I can do simple maintenance on cars and household appliances. |  | I did especially well in Engr Graphics & CAD |  | I know about/want to learn more about motors, solenoids, relays, switches, & power supplies |
|  | I own a 'daily planner' and use it to plan my semester schedule. |  | I have worked as a carpenter, plumber, or welder |  | Most consider me a 'better than average' writer based on high school or college courses, verbal SAT scores. |  | I have experience writing software code. (C/C++, Java, Assembly, BASIC, LabView, Python, Perl, other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) |
|  | I was/am an 'officer' of a club or organization at Rensselaer. |  | I have my own tools for repair/assembly of machines. |  | I have a drafting, circuit schematic, or modeling software package. |  | I have used electronic breadboards and/or can read resistor color codes. |
|  | I know about 3 or more of: PERT/CPM, Gantt chart, meeting agenda, peer evaluation, time management, concurrent engineering, quality circles. |  | I know about 3 or more of : pipe flange, journal bearing, relief valve, planetary reduction, pressure regulator, spline shaft, splice plate, counterbore. |  | I know about 3 or more of: revision block, abstract, feature control symbol, title block, reference callout, schematic, numerical integration. |  | I know about 3 or more of: 7400 series logic, A/D conversion, microcontrollers, PWM, NPN & PNP transistors, optoisolators, Op-Amps, grounding, current limiting resistors, voltage regulators. |
|  | I have/am taking classes in general management or leadership training. |  | I like to repair cars, household devices, or do other mechanical projects |  | I am effective speaking to groups. |  | I own a soldering iron, multi-meter, etc. and have built circuits as a hobby. |
|  | Given two members of the team can't get along, I could suggest at least two constructive ways to solve this conflict. |  | I could think of at least two ways to solve problems relating to shaft alignment of a motor connected to a transmission system |  | I enjoy learning about mathematical models of physical relationships and have done well in physics and mathematics courses |  | I took the Rensselaer course in electronics (Intro. to Electronics, LITEC, Electric Circuits, COCO, Electronic Instrumentation, etc.) or other electronics coursework. |
|  | I am presently enrolled in ROTC. |  | I took Engineering Processes, or two or more HS shop classes, or have worked as a machinist. |  | I can generally organize my work in a logical manner that others can understand. |  | I belong to an electrical or electronic club or organization. (IEEE, RPI E-Club, HKN, W2SZ, ACM, WRPI Engineer, UPAC Sound/Lights Engineer) |
|  | **Leadership Total** |  | **Mechanical Total** |  | **Modeling Total** |  | **Electrical/Computer Total** |

**Part 2.** *Tell us a little about yourself and about what should be considered when placing you on a team.*

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| --- | --- | --- | --- |
| **Rate using a scale of 0 (least) to 10 (most)** |  | h. Rate your ability to work out the details of an idea. |  |
| a. How motivated are you to do well in this course? |  | i. Rate your ability to keep clear documentation of your work. |  |
| b. Rate your degree of optimism to succeed in meeting challenges. chchachachallenges. |  | j. Rate your CAD skills. |  |
| c. How good are you at organizing your time and efforts? |  | k. Rate your report writing skills. |  |
| d. How good are you at starting things early? |  | l. Rate your ability to build things. |  |
| e. Rate your ability to plan the steps needed to reach a goal. |  | m. How good are you at working with others on a team? |  |
| f. Rate your ability to take responsibility for getting work done. |  | n. How good are you at finishing your part of the project? |  |
| g. How good are you at finding out things on your own? |  | o. . Rate your ability to come up with new ideas and concepts. |  |
| **How many hours /wk external to class will you commit to IED?** | **\_\_\_ Hrs/wk** | **What grade will you work to earn?** | \_\_\_ |

*List the strengths and weaknesses working on projects you bring to this class.*

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| --- | --- |
| **Strengths** | **Weaknesses** |
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*List any previous experience you think will help you in this class: List below any outside activities that may interfere with this class:*

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| --- | --- |
| **Previous Experience (will help in this class)** | **Outside Activities (may interfere with this class)** |
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*Member of fraternity or sorority? \_\_\_\_\_\_\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Office you hold now?\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Varsity Sports Team member? \_\_\_\_\_\_\_ Which one?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*List any comments or concerns. Continue on the back.*