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| **Best Use of Embedded Intelligence** |
| **Sponsor: The Bill and Dianne Mensch Foundation, Inc.** |
| **Description:** The Mensch Prize for Best Use of Embedded Intelligence recognizes the engineering innovation team that best integrates embedded intelligence into a potential commercial product that was developed in a senior design project. Specifically, the award will be granted to a student team that has built a smart connected prototype that may have a commercial market. Embedded Intelligence is characterized as the ability of a product to sense, process, communicate, and actuate (SPCA) based upon information gained from an understanding of both itself and others and for the benefit of many. Preference will be given to designs with SPCA capabilities that can demonstrably surpass human abilities to perform the same function.  Background: Embedded Intelligence (EI) is defined and used here to include the combination of software and micro-processing hardware used in Industry 4.0 and beyond Embedded Systems, Intelligent Systems and/or characterized as having Artificial Intelligence. Application specific embedded intelligence is used in a wide range of solutions in products like microwave ovens, refrigerators, pacemakers, smartphones, automobiles, robots, drones, and airplanes. The most common feature of these products, which fall into the category of “Internet of Things (IoT),” is that they communicate with each other (increasingly through what is described as “cloud services,” which constitutes a higher level of intelligence). Visit The Bill and Dianne Mensch Foundation, Inc. website at TheMenschFoundation.org to gain a better understanding of the concepts associated with embedded intelligence. |
| **Award Amount:** $1000 |
| **Self-nomination requirements:** Provide justification in the space below for how your project deserves to win this award (two pages max). Provide details on the embedded system used and how it was integrated with the rest of the system. The justification should include a brief description of what was sensed, processed, communicated, and actuated in the system designed in the project. In addition, in keeping with entrepreneurial aspects of the Mensch Prize, the document must include a statement on the innovative value of the designed system to mankind. |
| **Self-Nomination** |
| **Team Number:** |
| **Project Title:** |
| **Project Description (from booklet):** |
| **Justification:** |
| **Additional Material Attached:** |
| **Submitted by (name, email):** |