Senior Capstone Project Proposal

The project is designed for a team of students working toward completion of a project, within two semesters[1].

Title	Multi Stationed Dunk Testing Unit
Sponsor	Contact person: Wayne Buchan Company name: Bowmar LLC
	Contact info: wdbuchan@bowmarllc.com
Description	To comply with NADCAP passivation post processing specifications Bowmar LLC conducts a dunk test in distilled water for 24 hours. The parts going into the testing unit are dunked into the water bath once per hour for 24 consecutive dunks. We are looking for a 5 stationed unit capable of collecting data automatically so that we have records showing that all 24 dunks were completed, what dates it was ran on and by whom it was ran.
Disciplines (ME, EE, CS, etc.)	ME & EE
Estimated budget	$5,000
Technology Disclosed? If so, what?	No
Additional requirements	Data collection that can be accessed via USB. Testing unit cannot be connected to network or wifi.
NDA or IP Assignment agreement requested?	If students, see it as necessary to enter our machine shop or inspection then an NDA will need to be signed.

Technology and ECCN:

[1]In general, one semester has 15 weeks. For a 3 credit hours course, a student is expected to work minimum of 8 hours per week for the project which is equivalent to minimum of 120 hours.

"If your project involves 'technology' that is either (a) not publicly available or (b) includes proprietary source code (not executable files), then it requires an ECCN." 'Technology,' for this purpose, is defined as "information necessary for the development, production, use, operation, installation, maintenance, repair, overhaul or refurbishing of an item. Technology may be in any tangible form, such as written or oral communications, blueprints, drawings, photographs, plans, diagrams, models, formulae, tables, engineering designs and specifications, computer-aided design files, manuals or documentation, electronic media or information revealed through visual inspection."

Interactive tool to determine ECCN:
https://www.bis.doc.gov/index.php/export-control-classification-interactive-tool

NDAs and IP Assignments:
The sponsoring company typically has NDAs and IP assignment forms that it wishes to use. Neither the NDA nor the IP assignment is an agreement with Purdue directly; these agreements are between the students and the sponsoring company. Of course, our office can review the company-provided documents to be certain it aligns with Purdue's standards. Alternatively, our office has draft agreements which we could provide for the sponsor's use. Again, as NDAs are between the student and the sponsor, Purdue cannot be a party to or advise the sponsor or the student on the NDAs, other than to outline some basic expectations as to fairness and suitability of the NDA to a student project.

Sponsor Acknowledgements:
By way of background, Purdue University professors who have senior capstone class projects involving outside sponsor companies notify our office so that we can prepare an acknowledgement form for the sponsoring company's completion. This is not a contract but an acknowledgement form signed by sponsoring companies which lays out Purdue's guidelines regarding class projects and outside company inputs, potential export control issues, and student intellectual property. Some sponsoring companies offer a monetary donation to the project, but that is not a requirement.

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