The Texas Instruments Worldwide University Program enables teaching, student and research projects that use TI technologies across the entire signal chain. We have been supporting academics with TI chips, hardware, software and teaching resources for more than 25 years. Over 150,000 students worldwide trust TI analog, processors, controllers and wireless technology to bring concepts to life in their courses and projects. Thank you for evaluating TI to be a part of your project. We look forward to evaluating your application for a donation of TI equipment and will contact you very soon.

To apply for tool donations for your project, please work with your faculaty advisor or instructor to complete this form and email to [univ@ti.com](mailto:univ@ti.com). Please provide ample time for TI to evaluate your request. Should your request be approved, shipping leadtimes may apply and development tools are shipped to the university instructor business address.

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| **Date:** | 10/30/12 |

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| **University Name:** | Rose-Hulman Institute of Technology |

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| **Department:** | Robotics Team |
| **Requester Name:** | Benjamin Griffith |

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| --- | --- |
| **Title:** | Team Member |

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| --- | --- |
| **Telephone Number:** | (260) 577-2364 |

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| **E-mail Address:** | [griffibp@rose-hulman.edu](mailto:griffibp@rose-hulman.edu) |

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| **Advisor/Instructor:** | David Mutchler |

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| **E-mail Address:** | [mutchler@rose-hulman.edu](mailto:mutchler@rose-hulman.edu) |

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| **Shipping Address:** | 5500 Wabash Avenue CM99  Terre Haute, IN 47803 |

*Please provide a street address if possible. If not, confirm that UPS packages can be received at this address.*

**Project title, team (if applicable) and brief description (attach additional pages as necessary):**

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| --- |
| Our team competes in the Marine Advanced Technology Education Center’s annual Remotely Operated Vehicle competition (www.materover.org). We build a tethered robot that we operate in a pool via remote control on the surface. We use cameras, lights, and manipulators to accomplish a series of tasks, which change based on the year’s theme. We are hoping to use a BeagleBone as our underwater computer because of its high capabilities and small size, which will reduce the amount of waterproofing required. |

Are you registered for the TI Analog Design Contest? \_\_\_\_\_\_YES \_\_\_x\_\_\_NO

**Check the appropriate description(s):**

🞎 Project within a course

🞎 Undergraduate capstone/sr design project

🞎 Graduate Masters, PhD or Research project

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| --- | --- | --- | --- |
| **Due date of project:** | 4/26/13 | **Please Deliver Tools By:** Between 12/3/12 |  |

|  |  |
| --- | --- |
| List current tools being used: | |
| Arduino Uno | |

**List part number(s), description, and quantity of requested tools:** (Consult [www.ti.com](http://www.ti.com) or [www.ti.com/university](http://www.ti.com/university) as necessary.)

|  |  |  |
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| TI Part Number | Description | Quantity |

|  |  |  |
| --- | --- | --- |
| unknown | BeagleBone | 1 |

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**Please complete the following chart if the project is part of a course:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Class**  **(include course name and number and instructor)** | **Number of Students per Year** | **Required or Elective?** | **Who takes this class?** | | | | | **Number of times taught each year** | **Tools currently used (please fill in even if using non-TI product)** | **Will you still use the previous tools once you receive this grant?** | **Of the requested tools, which ones will be used in this class?** |
| **Fr** | **Soph** | **Jr** | **Sr** | **Grad** |
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**Please provide the website that you will post your results of the project, code sharing, Youtube videos, etc**[www.facebook.com/rhitrt](http://www.facebook.com/rhitrt)

**What date will the materials be posted so that TI can link to your results**

No later than June 30, 2013 (exact competition dates haven’t been announced yet).

**Briefly describe any publications or conference presentations you plan to publish that could be shared with other academics or industry as a result of the project. (can be on line lab materials, documentation, textbooks, workbooks, conference papers, software, videos of projects, or other materials)**

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| --- |
| We will be producing a 15-20 page design report, source code, and several videos of testing and competition runs. |