



BRUNSWICK
COMMUNITY COLLEGE

February 17, 2012

To: Marilyn Graham
Green Information and Training Center
Brunswick Community College
Supply, North Carolina

Re: Emerging & Innovative Studies within Brunswick Community College "Electronics" Engineering Technology

2011-2012 Academic Year

Presently, students and faculty are focused on two interesting and relevant projects. The first involves the construction of an Underwater Remotely Operated Vehicle to control a pollution monitoring platform.

The second involves the use of "Super" Capacitors as supplemental energy storage devices. Oceanographic pollution monitoring platforms that can harness wave energy for propulsion and data transmission can replace costly shipboard crews and scientists. The subsequent savings mean that more data can be transmitted and analyzed.

The majority of renewable and/or sustainable sources of electric power depend on Battery Technology for energy storage. It is believed that the "Super Capacitor" can enhance or ultimately replace batteries for hybrid or totally electric platforms.

Companies that have been researched with respect to these projects include "Seabotix", "Video Ray", "Maxwell Capacitors" , "Evergreen Electric Vehicles" and "Wave Glider".

An update will be provided at the conclusion of the 2011-2012 Academic Year.

Submitted by,

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