

Fuel Cell Capstone Research

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ABSTRACT:

Fuel cells are starting to become the primary alternate energy solution of the future. Fuel cells convert chemical energy into electricity quietly and typically run on water methanol or compressed hydrogen. The goal of this capstone was to develop a fuel cell stack system that will run on both hydrogen and methanol and have an output of 12 volts and 12 watts. The fuel cell stack will then be utilized by an electrical engineering capstone project. Preliminary research was performed on existing fuel cells at the United States Military Academy's fuel cell lab, in order to determine the basic direction of construction and fuel cell stack configuration.

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