

BUY
FRESH
LOCAL AND
in
SEASON.



Title

- Figure 1:** The Hardy Party - Poster: Health Reform
- Figure 2:** The Hardy Party - Poster: Fresh Local
- Figure 3:** The Hardy Party - Poster: Local Economy
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Figure 1: The Hardy Party - Poster: Health Reform



Figure 2: The Hardy Party - Poster: Fresh Local



Figure 3: The Hardy Party - Poster: Local Economy



Figure 4: The Hardy Party - Chomper! - Board Game



Figure 6: The Hardy Party - Logos & Business Stationary



Hybrid Electric Vehicle Engineering Research Area

Courses

1. Hybrid-Electric Vehicle Powertrains
2. Vehicle Energy Storage Systems
3. Vehicle Electrification
4. Hybrid-Electric Vehicle Systems Design



To find out more
and how to join visit
www.heve.colostate.edu



Figure 7: Hybrid Electric Vehicle Engineering - Poster 1

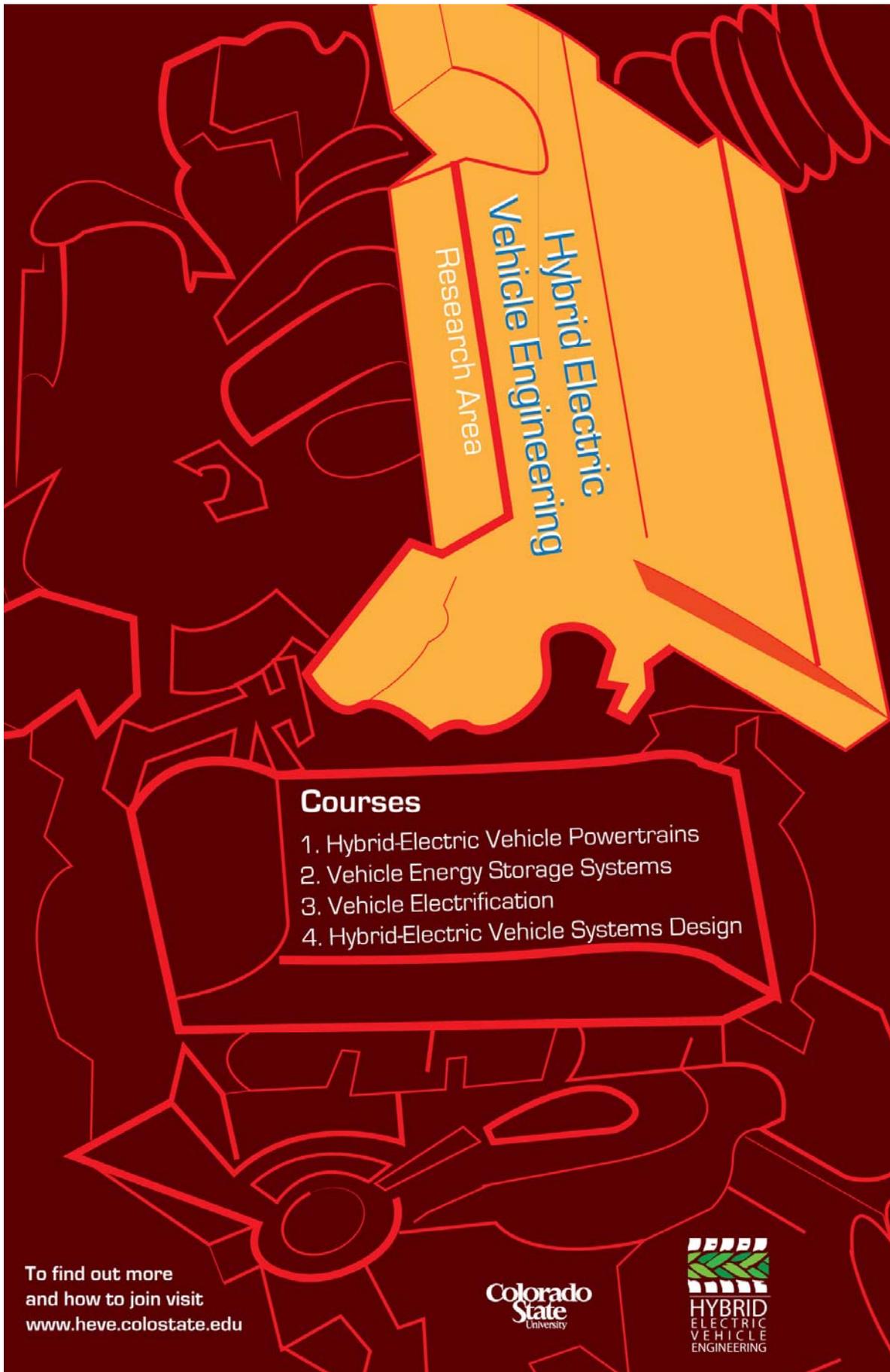


Figure 8: Hybrid Electric Vehicle Engineering - Poster 2

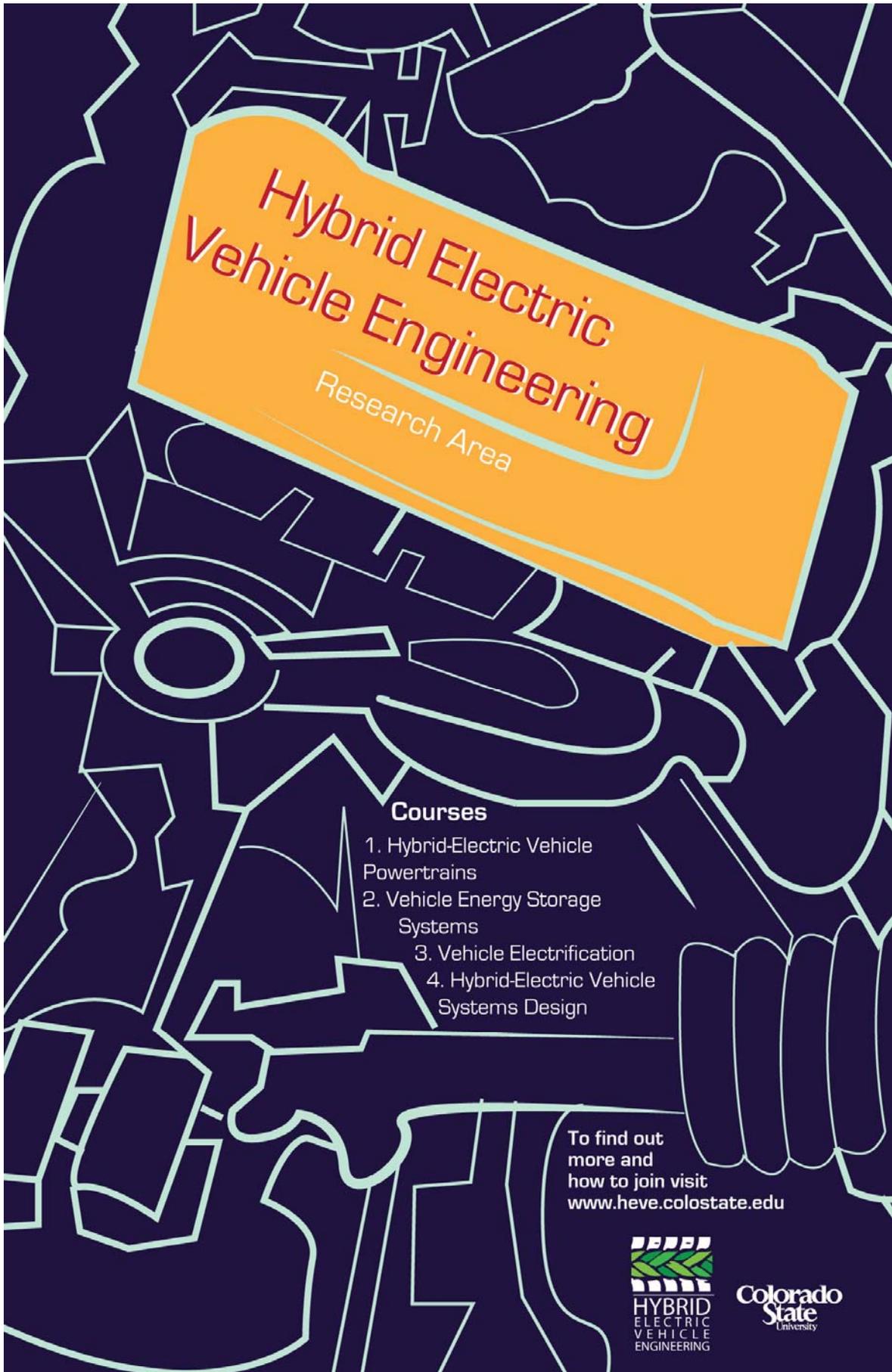
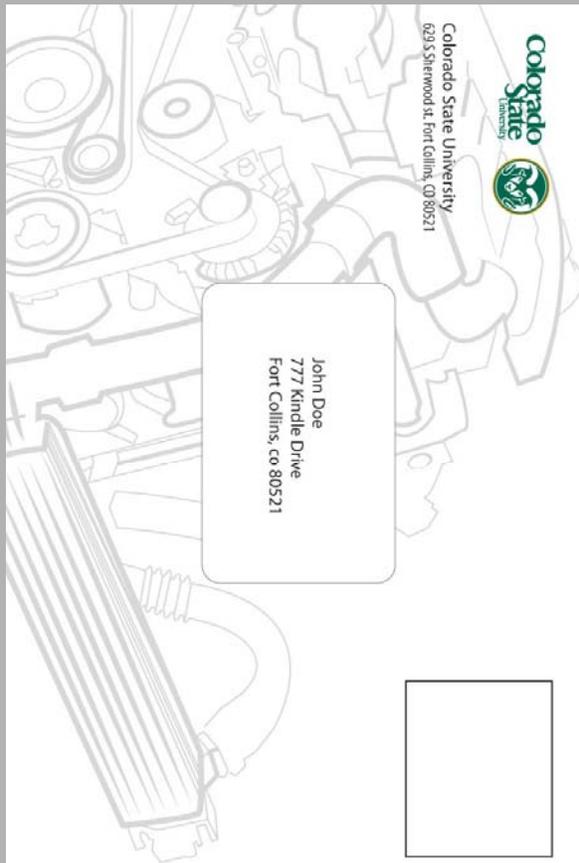


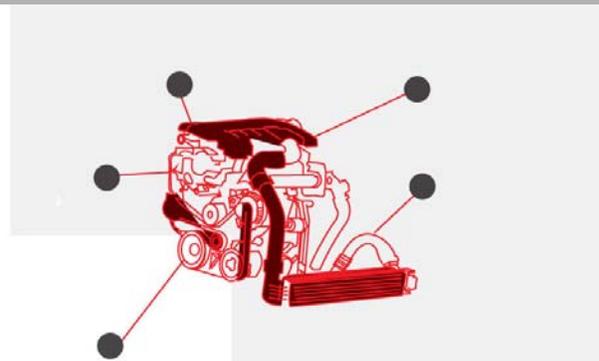
Figure 9: Hybrid Electric Vehicle Engineering - Poster 3



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HYBRID ELECTRICAL VEHICLE ENGINEERING

— RESEARCH AREA —

- HEV Engineering is a Research Area housed in Mechanical Engineering at CSU. It was created with a grant from the American Recovery and Reinvestment Act (ARRA), and work began on it in January of 2009. The grant established a collaborative between CSU, Georgia Tech, Arapahoe Community College, Ricardo automotive, Douglas County Education Foundation, and Motion Reality to facilitate market penetration of electrified vehicles, to include both fully-electric vehicles and hybrid-electric vehicles. For our part of the grant, CSU has worked with Georgia Tech to develop a graduate education program.
- The major goal of this program is to prepare disciplinary engineering students – like mechanical and electrical engineers – to work in the hybrid-electric vehicle industry, as the ARRA funding was intended to facilitate job training and growth in the US.

— COURSES OFFERED —

- The courses offered are all graduate-level, but three of them are open to seniors in engineering who are interested in the program.
- **Hybrid-Electric Vehicle Powertrains (HEV-PT), MECH 527**
 - project-based learning pedagogy, entirely centered around the semester-long project aimed at learning about hybrid-electric vehicle foundations
- **PHEV (plug-in HEV) Computation Systems Design and Vehicle Energy Storage Systems, ENGR 580A4**
 - focused on utilization of advanced modeling software to design HEVs and PHEVs in an unpredictable market where people's use is stochastic in nature.
- **Vehicle Energy Storage Systems (VESS), MECH 529**
 - taught as 3 individual modules focused on the three main methods of storing electrical energy in electrified vehicles – batteries, capacitors, and fuel cells
- **Vehicle Electrification, ENGR 680-A4**
 - real-world industry problems are examined through a research-intensive lens, attempting to understand and design for the commercialization of transportation electrification technologies, like vehicle-grid interfacing and plug-in charging.



— FACULTY —

Dr. Kenneth C. Stanton
Research Scientist

Research and Teaching Interests
Fuel cell and plug-in hybrid vehicle design and control
Curriculum development and design
Assessment of student learning
Motivation and engagement
Pedagogy and instructional design
Education policy and philosophy

Education
Ph.D., Engineering Education, Virginia Tech, 2010
M.S., Electrical Engineering, Virginia Tech, 2004
B.S., Electrical Engineering, Clarkson University, 1999
A.S., Engineering Science, SUNY at Canton, 1997

Dr. Thomas H. Bradley
Assistant Professor

Research Interests
Automotive and Aerospace System Design
Energy System Management and Supervisory Control
Designed Experiments and Validation

Teaching Interests
MECH 324 - Dynamics of Machines

Education
Ph.D., Mechanical Engineering, Georgia Institute of Technology, 2008
M.S., Mechanical Engineering, University of California at Davis, 2003
B.S., Mechanical Engineering, University of California at Davis, 2000

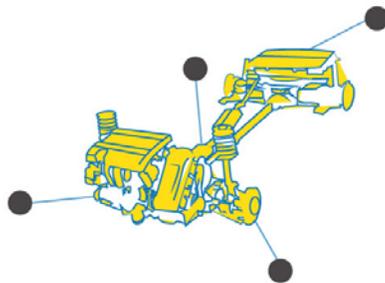


Figure 10: Hybrid Electric Vehicle Engineering - Info Mailer Brochure

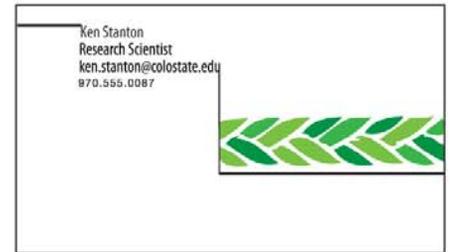
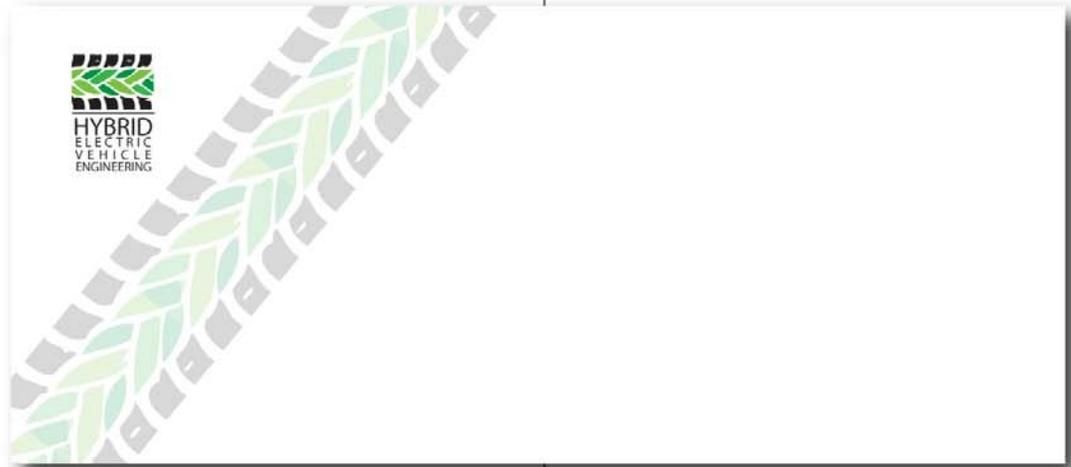
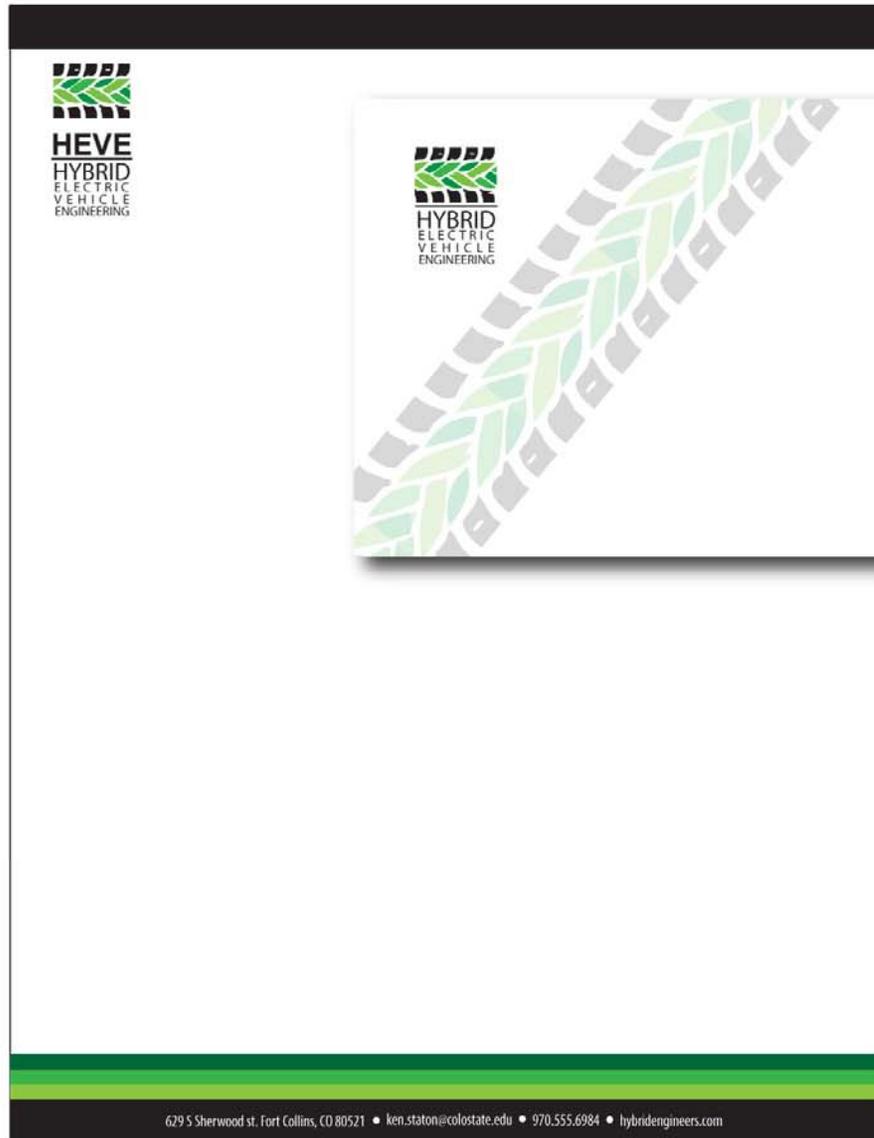
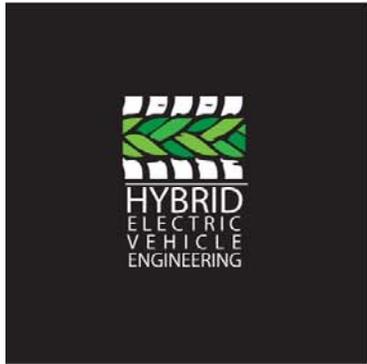


Figure 11: Hybrid Electric Vehicle Engineering - Logos & Business Stationary



Figure 12: Bleu Light Special - Logos



PROJECT:

BAS BLEU THEATRE

1

BLEU LIGHT SPECIAL LOGO

A logo created for Bas Bleu Theatre company. Bleu Light Special is an event that Bas Bleu puts on where they bring in a guest speaker to give a presentation.

2

ALMOST MAINE LAYOUTS

Different Advertisement layouts for the play, *Almost Maine*. These ads went into Open Stage Magazine as well as articles like the Coloradoan.

Figure 13: Website - Project: Bas Bleu Theatre

PROJECT:

THE HARDY PARTY

1

LOGO & STATIONARY

The Hardy Party is a political party that represents sustainable living and healthy lifestyles. This is the logo created for the party as well as the letterhead, business card, and envelope.

2

THREE AD SERIES

A series of three advertisements to raise awareness about the Hardy Party. Each vector illustration was done in illustrator.

3

THREE POSTER SERIES

A series of three Posters that raise awareness about the Hardy Party. They are more illustrative and typographical based.

4

GAMEBOARD

A factual gameboard created to give factual knowledge about the Hardy Party and its' planks.

Figure 14: Website - Project: The Hardy Party

PROJECT:

HYBRID ELECTRIC VEHICLE ENGINEERING

1

LOGO & STATIONARY

Hybrid Electric Vehicle Engineering was the name of an up-and-coming program at Colorado State University that focused on the engineering and environmental aspects of hybrid vehicles.

2

THREE POSTER SERIES

A series of three posters that show the different courses included in the program. The illustrations of the different engines were all done with the pen tool in Illustrator.

3

DIRECT MAIL BROCHURE

A brochure designed to educate prospective students on the program's purpose. It is meant to recruit new students for the program.

Figure 15: Website - Project: Hybrid Electric Vehicle Engineering

PROJECT:

OTTERBOX

1

LOGO & STATIONARY

Hybrid Electric Vehicle Engineering was the name of an up-and-coming program at Colorado State University that focused on the engineering and environmental aspects of hybrid vehicles.

2

THREE POSTER SERIES

A series of three posters that show the different courses included in the program. The illustrations of the different engines were all done with the pen tool in illustrator.

3

DIRECT MAIL BROCHURE

A brochure designed to educate prospective students on the program's purpose. It is meant to recruit new students for the program.

Figure 16: Website - Project: Otterbox