

Group Project: Garmin - Energy Harvesting in Fitness Electronics

Website: http://home.engineering.iastate.edu/~redejmal/senior_design/index.html

Project Number: May14-17

Client: Adam Rasmussen

Advisor: Dr. Degang Chen

Group Members:

Tyler Chenhall – Project Leader
Rebekah Dejmal – Communications
Catherine Homan
Allison Sapienza
Omer Vejsovic
Jeramie Vens

Accomplishments in the Past Week

- Held our second group meeting
- Continued researching possible energy harvesting strategies
 - Focusing on Piezoelectric, Peltier effect, and RF options
 - Considering power output, size, solution constraints, and which products might benefit
- Met with our client (Adam Rasmussen) to discuss his vision for the project
- Implemented a website to host our project information & weekly reports
 - http://home.engineering.iastate.edu/~redejmal/senior_design/index.html

Plan for the Upcoming Week

- Continue researching energy harvesting strategies
- Begin thinking of tests we could perform to evaluate strategies
- Meet with Dr. Chen on Monday (09/16)

Pending Issues

- none

Individual Contributions

- Tyler
 - Took meeting notes & created the weekly report
 - Researched piezoelectric energy harvesting
- Rebekah

- Created the website for our project
- Catherine
 - Researched RF energy harvesting
- Allison
 - Researched Peltier effect energy harvesting
- Omer
 - Researched piezoelectric energy harvesting
- Jeramie
 - Researched Peltier effect energy harvesting

Individual Hourly Contributions

- Tyler – 5.0 hours
- Rebekah – 2.3 hours
- Catherine – 3.5 hours
- Allison – 3.8 hours
- Omer – 3.0 hours
- Jeramie – 4.8 hours