

Homework 3

February 10, 2013

CPE-322, Engineering Design VI

Paul Di Santi

I pledge my Honor that I have abided by the Stevens Honor System.

Paul Di Santi

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Projects of Interest

Project Definer	Stanley Switalski
Name of Project	LED Patch Panels
My Potential Contribution	Help in the design of the specialized patch panel as well as the test tool needed along with the patch panel
Suggestions of possible adjustments	Add some sort of software solution that could also help identify which port on the patch panel lights up once the tester is plugged in. This will eliminate the need to have a second person standing at the patch panel to identify the corresponding port.
Would I be willing to work on it?	Yes

Project Definer	Takahiro Akiyama
Name of Project	Language Translator App
My Potential Contribution	Help with code (particularly for the android
	application) for the translation component
Suggestions of possible adjustments	Have the application contact a server to
	conduct the translations and effectively
	complete the "computing." If the smartphone
	does not have internet access, include an option
	to download an offline component for each
	language you wish to be translating to/from.
Would I be willing to work on it?	Yes

Project Definer	Joseph Vieitez
Name of Project	Smartphone Controlled A/C Unit
My Potential Contribution	Help with code (particularly for the android application) for the AC control component
Suggestions of possible adjustments	Include a web based UI as well that has the same exact functionality as the app. This would allow for control of the A/C from anywhere in case a smartphone is not accessible
Would I be willing to work on it?	Yes



Project Definer	Kaminski, Gregory
Name of Project	Self-Balancing Ball-bot
My Potential Contribution	Help with coding and configuration of the ball
	bot to be used in a variety of situations
Suggestions of possible adjustments	Perhaps use some sort of "track" system in situations where balance could be an issue for robots going on the same path multiple times
Would I be willing to work on it?	Yes

Project Definer	Eric Pantaleon
Name of Project	Cell Phone Guitar Amp
My Potential Contribution	Help with coding and configuration of the app
Suggestions of possible adjustments	Rather than use the phone's speaker to play the sounds from guitar, have the ability to go through a separate set of speakers through Bluetooth. Also add the ability to go through a traditional Amplifier/speaker while the app handles any sort of audio processing/distortions.
Would I be willing to work on it?	Yes