

Submission Date
Project Name
Student Name
Project website
My project will
The database will store
The mobile device functionality will include
I will be collaborating with the following company/department
My group in the winter semester will include
50 word problem statement
100 words of background
Current product APA citation
Existing research IEEE paper APA citation
Brief description of planned purchases
Solution description

9/15/2017
InfraredSensor
Raymond Dang
https://github.com/arZone1/InfraredSensors
Be used in parking lots to check availability of parking spaces for people to park their cars
Drivers cars and license plate
checking to see if the parking lot is full
N/A
Kevin Abarca (Lasers),
Drivers that commute to work and back are sometimes left without a place to safely park their vehicles due to having full parking lots. Drivers struggle with finding parking available at peak times and are often waiting around for people to leave so they can take that parking.
Commuters find a common problem in finding parking spaces for them to park their vehicles due to parking lots being full and they have to drive around to find a parking lot that has available space. When drivers pull up to a parking lot they should see how many spaces are there if not display a full parking lot sign.
Using an IR Sensor IR Sensor Adafruit Learning System. (n.d.). Retrieved from https://learn.adafruit.com/ir-sensor/using-an-ir-sensor
Improved vehicle positioning for indoor navigation in parking garages through commercially available maps IEEE Conference Publication. (n.d.). Retrieved from http://ieeexplore.ieee.org/document/5646710/metrics http://ieeexplore.ieee.org/document/5646710/metrics
Arduino starter kit - https://www.amazon.ca/Kuman-Project-Tutorials-Mega2560-included/dp/B0188TO4VU/ref=sr_1_1?ie=UTF8&qid=1505491103&sr=8-1&keywords=arduino
Solving commuter problems and having available parking spots for them to park their own vehicles

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						The	ing with	My group	
						mobile	the	in the	
						device	following	winter	50 word
				My	The	functional	company/	semester	problem
Submission	Project	Student	Project	project	database	ity will	departme	will	statemen
n Date	Name	Name	website	will	will store	include	nt	include	t
			https://github.com/arZone1/InfraredSensors	Be used	Drivers	checking			Drivers
				in parking	cars and	to see if			that
				lots to	license	the		Kevin	commute
	InfraredS	Raymond	/InfraredS	check	plate	parking		Abarca	to work
42993	ensor	Dang	ensors	availabilit		lot is full	N/A	(Lasers),	and back

100	Current	Existing	Brief	
words of	product	research	descriptio	
backgrou	APA	IEEE	n of	Solution
nd	citation	paper	planned	descriptio
Commute	Using an	APA	purchases	n
rs find a	IR Sensor	Improved	Arduino	Solving
common	IR	vehicle	starter kit	commute
problem	Sensor	positionin	-	r
in finding	Adafruit	g for	https://w	problems
		indoor	ww.amaz	and