



Knights Solution

Project Title

Design of a Safer Child Car Seat

Team Members

PID

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The Boeing Company-

Our company, “Knights Solution,” is seeking the funds to build an infant car seat that will save lives and make everyday living less stressful. Our product is a sensor system, located in the base of the car seat, which is hardwired into the vehicle’s computer system. The sensor will be weight sensitive so that when the car is turned off for two minutes, the process chip in the vehicle will turn on the car lights, ignition, air conditioning, and alarm system drawing attention to the forgotten baby. In addition to the vehicle’s alert system, Bluetooth technology will also be built into the seat. This component will connect to the parent’s cell phone and display a notification when the car is turned off and the weight sensor is still activated.

Given enough funding, the ergonomics of the infant car seat will be factored into the design. The base of the car seat will be able to swivel to ease the securing and removing process. This will alleviate improper buckling to keep the child safe and also make parents more apt to take their child into the store with them instead of leaving them for a few crucial minutes due of the “hassle” of removing and securing them.

In order to complete this extensive electrical and design system we are requesting \$1500 of financial support to purchase the needed equipment.

Below are the expected component costs:

Cost Breakdown	
Manufacturing Car Seat	\$600
Material	\$30
LED Monitor	\$70
Patent Service	\$500
Basic Microcontroller	\$10
Bluetooth Car Adapter	\$100
Bluetooth Car Seat Adapter	\$15
Temperature Sensor	\$5
Load Sensor	\$40
Rechargeable Battery	\$50
Solar Panel	\$40
Rotating Base	\$50
Microsoft Project	\$200
AutoCad	\$210

This product is a preventative measure for Forgotten Baby Syndrome (FBS) that will retail for \$250 per car seat.

Thank you for your time and consideration. Should you have any questions regarding our request, you may contact our Project Manager, Eli Lorenzo at [removed].

Sincerely,

Knights Solution

February 6th, 2015