

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Elise J. Winward	
Elise J. Whiward	
	35850
Project Title	(2)
Solar Cycle	
	$\bigcirc$ $\checkmark$
Abstract	
<b>Objectives/Goals</b> I tested whether or not I could simulate a solar-powered electric bicycle that	could go 1.4 kilometers on
one charge of its batteries.	
Methods/Materials	
I used many regular tools to build the physical project (Ex. Screw giver of things were the back bicycle tire (including gears), electric moto, and an A	drift) out, the most important
(micro-controller).	Idento Leonardo
Results	1
In my project I tested voltages sent to the amplifier from the Arduno based	upon different programming
commands, the speed (in kph) the motor would go at the different voltages, needed to propel the wheel at certain speeds, and how long the batteries wo	the amperage the motor
Conclusions/Discussion	
I was successful in completing my objective of my project. Also, my hypoth I would be able to. This project applies to humanicy because if many people solar-powered electric bicycles to get to work instead of cars, we could redu into the atmosphere. Also, because the electric motor on the bicycle would, supplemental power, riding bicycles of and from your could increase the or	hesis was correct in stating that
I would be able to. This project applies to humanity because if many people	e were able to use
solar-powered electric bicycles to get to work instead of cars, we could reduin to the atmosphere. Also, because the electric motor on the bicycle would	most likely only be used as
supplemental power, riding bicycles to and from vort could increase the ov	verall health of the population.
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Summary Statement	
My project simulater a solar-powered electric bicycle and tested whether or	r not it would be an efficient
method of transportation.	
Help Received	
Uncle and Father helped me to learn the programming of the micro-control	er.