

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Zach M. Rubin	S1216
	01210
Project Title	
Compu-Drive Abstract	
Methods/Materials	elessiy.
construct the interface. write the program (in C).	
Hardware: # 1x 630E Thinkpad; # 1x bread board; # 8x relay	ys 5vdc DPDT; # 2x parallel port cables; # 1x
plastic enclosure; # 1xCard board box; # 2x R/C micro tanks	with radio controller (49 and 27 Mhz).
Tools: # Soldering iron: # Solder sucker: # Solder : # Pliers: # Screwdrivers : # Duct tape: # Digital	
multimeter; # LEDs; # Drill; # Dremel; # Wire and strippers	
Results	
YES 1 was able to do this however i came accross many things that gave me trouble such as	
linker errors segmentation faults	
null pins	
bios settings	
but with much time spent troubleshooting i was able to find	the root of all theese problems to come to the
Conclusions/Discussion	
I was able to do what i had set out to do. I had constructed t	he interface, written the code and built a
platform which two little cars drove around on, as they were	programmed to, the only part to the problem
that that was less than satasfying (to me at least) was the fac	t that i could not predict the cars path with
the battery dies	int, and they usarry go increasingly slow as
the battery tiles.	
Summary Statement	
Compu-Drive focuses on robotics and the ability computers world.	s have to control hardware in the outside
Help Received	
the following people helped me get my code running correct	ly, via email: Chuck White. Al Hooton
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