

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Jahan Razavi	J0925
Project Title The NavHat: A Mobility Aid for th	e Blind
Abstr	act
As the person wearing the hat gets closer to an object Methods/Materials I used three radar modules that were powered by 9	es for the sides and to a cellphone buzzer for the front. ct, the earphones and the buzzer ping faster. volt batteries and switches. They were placed on a . The switches and the batteries were taped to the rim. hts. I found the minimum and maximum distance from aging started and after it stopped. The data for the front sely spaced. The left-side data had a range of about 20 ata had the least variation, about 10 inches. hy objects during testing. This can help the blind to the sides and in front of them, thus reducing the
Summary Statement My project was to build a mobility aid for the blind on different people and with different obstacles.	consisting of three ultrasonic radar modules and test it
Help Received My father introduced the ultrasonic module to me. If three radars and placing them on a rim was mine.	He also taught me how to solder. The idea of using