11/07/2022

**INTRODUCTION TO IoT**

PROBLEM STATEMENT:

**“We need a E-STROLLER”**

* Mommy wheels the baby out.
* Sometimes, she is not in a position to push it, so we need some assistance.
* Sometimes, going down the slope, the stroller pulls her as she is likely to fall.
* Sometimes she has to handle it with one hand as she is taking her knitting bag.
* She is worried that somebody will lift the baby when granny is busy knitting.
* She also needs some assistance while steering the stroller.

SOLUTION / REQUIREMENTS:

* We can input some sensors which detects the slopes and elevations that is UPHILL & DOWNHILL which can be pre-determined using maps and then is maintain a constant speed to avoid falls and slips.
* Usage of protective components to protect the baby from sharp edges, points etc.
* Wheel and swivel assemblies to address falls and slips.
* Use certain object sensors to detect different objects in front of the stroller and avoid them.
* Design it in such a way that it travels smoothly inspite of stones, sand & gravel.
* One handed fold operations can be included for the betterment and ease for the mommy to handle the baby.
* Safety can be increased more by including a lock system to the stroll.so that no one can carry the baby away easily.
* Use GPS to locate the baby 24\*7 wherever it is.
* Easy remote-control system can be provided for rotating or steering the stroller easily.
* Including the face sensors so as to recognize people’s faces surrounding the baby as we are in shopping.
* Sound sensors like minor sirens can be included so that it horns when an unknown person tries to carry the baby.
* Even some sensors can be sticked on to baby’s clothes so as to detect it.
* For some additional features, a basket can be added to the stroller, & can be used as a shopping basket.