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Dementia Care with Innovative IoT Solutions

During the internship, I aim to focus on revolutionizing *dementia care* through *innovative IoT solutions*, particularly wearable *GPS trackers and smart home s*ensors, with a strong emphasis on their application in dementia care.

- **Wearable GPS Trackers:**

I. Develop customized GPS trackers integrated into wearable devices like smartwatches or discreet bracelets.
II. These trackers will provide real-time location data for dementia patients, reducing the risks associated with wandering incidents.
III. The goal is to empower caregivers with timely information and ensure the safety and well-being of patients.

- **Smart Home Sensors:**

I. Implement smart home sensors strategically placed on doors, windows, and everyday objects.
II. These sensors will detect safety hazards and unusual activities, providing alerts to caregivers.
III. By leveraging IoT technologies such as Firebase and MongoDB, along with AI algorithms, we aim to create an intelligent system that enhances the quality of life for both patients and caregivers, fostering a supportive living environment.

To sum up, the primary objective of my internship is utilising IoT technology to find solutions to the particular problems that people with dementia and carers encounter. My goal is to contribute significantly to the field of dementia care technology by creating smart home sensors and wearable GPS trackers.

To support above ideas, I have my IoT projects that make eligible with IoT and knowledge about Arduino *and Vega Platforms,* and **Prof. Sudip Misra,** I have your support to make these ideas true.

Thanking You

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