

April 24, 2018

Customer

A US based opto-electronic global product company with fully owned world class manufacturing facilities. The company is vertically integrated from active and passive components to value added modular versions and is proficient in subsystems integration.

Problem Statement/Requirements

The customer has been successfully delivering numerous residential and commercial infrastructure projects including elderly care and modern residential living units.

The customer wishes to convert their living units to smart homes and their buildings to smart buildings. One of the other important requirements from the customer is to introduce 'Aging in Place and Assisted Living Facilities' to their elderly care units.

Solution Methodology

Smart Living and Elderly Care

With our successful Smart Living Solutions, SFO has implemented an ecosystem of gateway, connected devices, applications and predictive analytics in customer's living infrastructure.

Our Aging in Place Solution helps property owners to provide intuitive supportive services that are customized to the needs of elderly, allowing them to remain at affordable, senior friendly home and community environments.

Smart Buildings

A Multi Dwelling Unit (MDU) property is an ideal candidate for our smart infrastructure solution, providing numerous management features which facilitate the everyday responsibilities of the Property Manager and offering many convenience features to the residence.

Brief description of product:

A. Hardware

❖ Gateway

Processor Board:

- MIPS Core (MIPS24KEc – 32 bit at 580 MHz clock) processor
- 64KB Instruction Cache & 32 KB Data Cache
- 128 MB DDR2 RAM & 32 MB flash
- OS: Linux

❖ WiFi Module:

- Integrated FE Controller, supports 802.11 b/g/n
- Supports Station, AP modes

❖ Sub1G Module:

- CC110X Based chipset from TI
- Supports 300-348 MHz, 387-464 MHz & 779-928 MHz

❖ Bluetooth Module:

- CC256X Based chipset from TI
- Support for Dual Mode

❖ Mini-Gateway:

- Based on TI's CC3200 & CC2650 chipsets with 256 KB Flash

B. Software

❖ Residents app features:

- Dashboard, Notifications and Alerts, Fall detection, Panic alarms, Calendar, Medication reminders, Activity monitoring, Sleep pattern analysis, Food consumption pattern, Security, Bulletins etc.

❖ Manager app features:

- Dashboard view, living units management, device configurations, resident management, alerts and notifications, maintenance management etc.

❖ Remote family member app:

- Dashboard, notifications and alerts, security and other features to remotely monitor their family members.

C. Compliance

- CE/FC Certification

Impact

- Our solution helped the customer to achieve lower staff to resident ratio, faster response time in case of critical events and alarms, convenience to residents and property managers.
- We enabled the customer to apply predictive analytics by interpreting the enormous data and patterns collected from devices

About SFO

SFO Technologies Pvt Ltd, the flagship arm of the diversified conglomerate, the NeST Group provides end-to-end design-engineering-software-manufacturing solutions to clients across geographies such as the USA, Canada, Europe, Middle East, South East Asia, Japan, Australia, and India. SFO has invested in building competence, scale and standards compliant process framework, in PCBA, fibre optics, Cable & wire Harness, Magnetics, High Level Assembly, VLSI design, embedded software development, etc. SFO's capabilities transcend the plain vanilla "Build-to-Spec or Build-to-Print" EMS and our ODM+ solutions are rapidly re-defining standards for the OEMs across Aerospace & Defence, Communications, Transportation, Healthcare and Energy & Industrial domains. .



Contact:



contact@sfotechnologies.net



www.sfotechnologies.net

SFO Technologies Pvt. Ltd.

Plot No. 2, Cochin Special Economic Zone (CSEZ), Kakkanad, Kochi (Cochin) – 682 037, India. Tel: 0484 – 6614300