Project Title: Developing an ARM Based Sensor Platform

Project Proponent: John Richard HIZON

Designation of Proponent:

Department and College Proponent:

Project Abstract: The aim of this project is to develop a sensor platform wireless sensor networks (WSNs). This platform will need an advanced microcontroller to handle different processing requirements and a bus architecture to enable a scalable solution for interfacing. This is accomplished by using an ARM microcontroller and its corresponding Advanced Microcontroller Bus Architecture (AMBA) protocol. The goal of this project therefore is to develop the IPs for the microcontroller and the necessary blocks to implement the AMBA protocol. These IPs will then be used in developing sensor nodes for monitoring application like in mining, smart homes and offices. As a proof of concept, the project will develop a sensor node with a camera interface to monitor the air pollution in Metro Manila.

Funding Support in Philippine Pesos: 600,000.00

Duration and Status: 24 months

Contact Information of Project Proponent: