

# Wearable Motion Detection System

**Status** Filled

**Group Members** Yue Dong, Paul Chou, Anthony Ko, Wing Tai Chu

**Supervisor**

**Supervisor** Woo Soo Kim, PhD, P. Eng, Assistant Professor, Mechatronics Systems Engineering

## Project Description

Nano-manufacturing such as nano ink printing technologies (e.g., jet printing, stamping, spraying, and screen printing), due to their cost-effective and process-effective fabrication, have drawn considerable attention. Hence, we are proposing here a wireless motion detection system with flexible accelerometer as a wearable platform.

## Project Main Deliverables

It is required that students:

Develop a fully functional proof-of-concept prototype of the electronic circuit for motion detection.

Perform a feasibility study in terms of manufacturing cost, power efficiency, compactness, durability and effectiveness between various concepts: e.g. wireless motion detection with flexible accelerometers.