

DESCRIPTION

Integrated Photonics Gyroscope

Gyroscopes are used to navigate a moving object. Our solution is reducing the cost, size and power of existing technologies such as Fiber-Optics gyroscope. We are integrating all photonics components on a single chip.

TECHNOLOGICAL CHALLENGE

Integrating different components on the same chip is challenging as some components are not compatible with silicon.

DEVELOPED SOLUTION

We will use flip chip method to integrate the laser source with the sensor part on the same PCB.

GOALS

Our product will be 50X smaller, 30X cheaper and uses 8X less power





— THIS PROJECT IS AN ACTIVE —
COLLABORATION BETWEEN



**Photonics group at McGill University
and Concordia University**