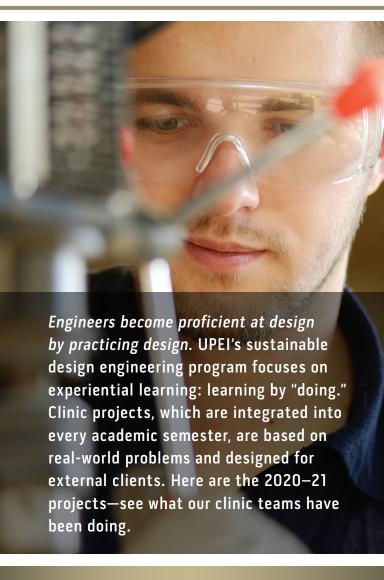
UPEI FACULTY OF SUSTAINABLE DESIGN ENGINEERING

# INDUSTRY CLINIC PROJECTS 2019-2020





Faculty of
SUSTAINABLE
DESIGN ENGINEERING

## 1ST YEAR DESIGN

#### **PARTNER**

PARKS CANADA, PEI NATIONAL PARK, PEI Locations
PROJECT

Solutions for climate change

## 2ND YEAR DESIGN

#### **PARTNER**

STANDARDAERO, Slemon Park, PEI PROJECT

Fixture for blasting turbine blades

#### **PARTNER**

STEPSCAN TECHNOLOGIES INC., Charlottetown, PEPPROJECT

Design of equipment for conducting sensor crosstalk testing

#### **PARTNER**

UPSTREET CRAFT BREWING, Charlottetown, PEI PROJECT

Design of system to dispose of spent grain

#### **PARTNER**

WESTERN HOSPITAL, Alberton, PEI PROJECT

Dispenser design for incontinence pads

## 2ND YEAR DESIGN

#### **PARTNER**

ATLANTIC AQUA FARMS, Georgetown, PEI
PROJECT

Design a device to remove socking material and rope from backlines

#### **PARTNER**

CANADIAN SPACE AGENCY, Ottawa, Ont.
PROJECT

Ground support equipment for SpudNik-1 CubeSat

#### PARTNER

CAVENDISH FARMS CULINARY CENTRE, Charlottetown, PEI PROJECT Design of specialty food product

CONNIE MACDONALD, Charlottetown, PEI
PROJECT

Solution to urban noise pollution for a residential property

#### **PARTNER**

**PARTNER** 

HABITAT FOR HUMANITY PEI, Charlottetown, PEI PROJECT

Home water usage audit and analysis

#### **PARTNER**

NINE YARDS STUDIO, Charlottetown, PEI PROJECT

Urban periscope design for a Charlottetown park

#### **PARTNER**

PEI ANALYTICAL LABS, Charlottetown, PEI PROJECT

Automation of rainmaker test apparatus

#### **PARTNER**

QEH FOUNDATION, Charlottetown, PEI PROJECT

Development of a coin and cash donation collector

## 3RD YEAR DESIGN

#### **PARTNER**

ACADIAN SUPREME, Wellington, PEI PROJECT

Design improvements for cleaning lobster holding tanks

#### **PARTNER**

AGRICULTURE AND AGRI-FOOD CANADA,

Charlottetown, PEI

PROJECT

IKOJECI

Design of temperature-controlled containers for plant research trials

#### **PARTNER**

CANADIAN SPACE AGENCY, Ottawa, Ont.
PROJECT

Design of ground station for SpudNik-1 communications

#### **PARTNER**

CANADIAN TIRE CORPORATION, Bolton, Ont.

PROJECT

Lift assist device for heavy pails and buckets

#### **PARTNER**

CAVENDISH FARMS, New Annan, PEI PROJECT

System design improvements for water and energy recovery

#### **PARTNER**

EASTERN FABRICATORS, Georgetown, PEI PROJECT

Design of lobster claw/knuckle automated cutting system

#### **PARTNER**

ISLAND ABBEY FOODS, Charlottetown, PEI PROJECT

Automated process to measure gummy weight

#### **PARTNER**

QEH PHYSICAL MEDICINE, Charlottetown, PEI PROJECT

Obstacle course design to assist with rehabilitation

## 4TH YEAR DESIGN

#### **PARTNER**

CANADIAN SPACE AGENCY, Ottawa, Ont.

#### **PROJECT**

Payload and structure design for SpudNik-1 CubeSat

#### **PARTNER**

CAVENDISH FARMS, New Annan, PEI

#### **PROJECT**

Optimization of primary clarifiers

#### **PARTNER**

DEFENCE RESEARCH AND DEVELOPMENT CANADA, Valcartier, Que

#### **PROJECT**

Design and implementation of a radio frequency signal measurement system

#### **PARTNER**

MDS COATING TECHNOLOGIES, Slemon Park, PEI PROJECT

Automated system for mixing and loading powder to 3D printer

#### **PARTNER**

NORCAN MARINE, Montague, PEI

## PROJECT

Scaling Norcan 222 hull design and performance for fishing boat application

#### PARTNER

PEI DEPARTMENT OF AGRICULTURE AND LAND, Charlottetown, PEI

### **PROJECT**

Yield monitoring system for potato harvesters

#### **PARTNER**

THALES CANADA, Ottawa, Ont.

#### **PROJECT**

Software tool to optimize fuel efficiency of BC ferries





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