Yim Lai Sum

Contact Information:

Address: Top Floor , 5 San Cheung ST., Sheung Shui , New Territories , Hong Kong

Phone: +886 961 541 270 (Taiwan)

Email: yimlaisum2014@gmail.com

Hobbies

Playing sports (Table tennis , Basketball , Track and Field), Reading , watching movies , photography

Research Interest

Innovation , Mechanism and Product design , Robotic , AR

Education

02/2020 - now

M.S. in Robotics
National Chiao Tung University (NCTU), Taiwan.

09/2015 - 07/2019

B.S. in Mechanical engineering
National Chung Cheng University (CCU), Taiwan.

09/2009 - 07/2015

Secondary school
T.W.G.Hs Li Ka Shing College (LKS), Hong Kong.

Competition

2016 - 2017

International Genetically Engineered Machine Competition, iGEM   (Awards: Silver Medal)

It is a worldwide synthetic biology competition. Our team innovate a detecting instrument that evaluates the risk of tooth decay with saliva, named Carindex.

Our website: http://2017.igem.org/Team:CCU_Taiwan

Responsibilities:
- Device designer – from idea to prototype
- Wiki article writer – Hardware overview and Device design

2017

ASME Taiwan SPDC

It is a robotic competition.

Subject : Robot Football: Goooaaaalll !!!!!!

Responsibilities:
- Machine designer – idea and control development

2018

BraunPrice

Subject : Design For What Matters

It is an innovation competition that can be virtual or physical, scientific or technical, or that changes our behavior for the better. Our group focus on global problem -- food wasted. We want to develop a network about the household food management and food sharing.

Responsibilities:
- Article writer – idea development and poster design

Research

2017 - 2018

Simulation of covering vamp to human foot

Using 3D scanner and Computer-aided engineering (CAE) software to analyze its load conditions and try to define physical parameter of "good coving" for further application.

Responsibilities:
- Stretching test
- CAE simulation setting and analysis
- Using strain gauge sensor

Project

2018

Writing machine

Using Computer-aided design (CAD) software for designing, traditional machining tools for machining and Arduino for controlling to make a writing machine.

Responsibilities:
- Machine Designer – from idea to prototype , control development and coding

2018

Indoor Tracking between Quadcopter and Car

Our team assembling a quadcopter and a car. We want to develop a method dealing with the situation that the quadcopter can drop a ball to the car at indoor environment accurately

Responsibilities:
- Image processing and visual recognition

Used tools & programming experiences

Software		Programming	
Computer-aided design (CAD)	Solidworks	language	Visual Basic Python(opencv)
Computer-aided engineering (CAE)	Abaqus Ansys Classic	Evaluation Board	Arduino
Other software	Matlab		

END