



Institute of Field Robotics

King Mongkut's University of Technology Thonburi

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FIBO Structure



Case Studies from Research/
Industrial to Classroom



Theme: Robotics for Life

Field Robotics
Edutainment
Medical & Rehab
Industrial related

Premium Education



Public Education Service
Module-based Curriculum
/Project-based Learning
with High Profile Faculty



B.Eng., M.Eng., Ph.D. in Robotics and Automation
M.Sc. in Technopreneurship



Well trained/Hands-on

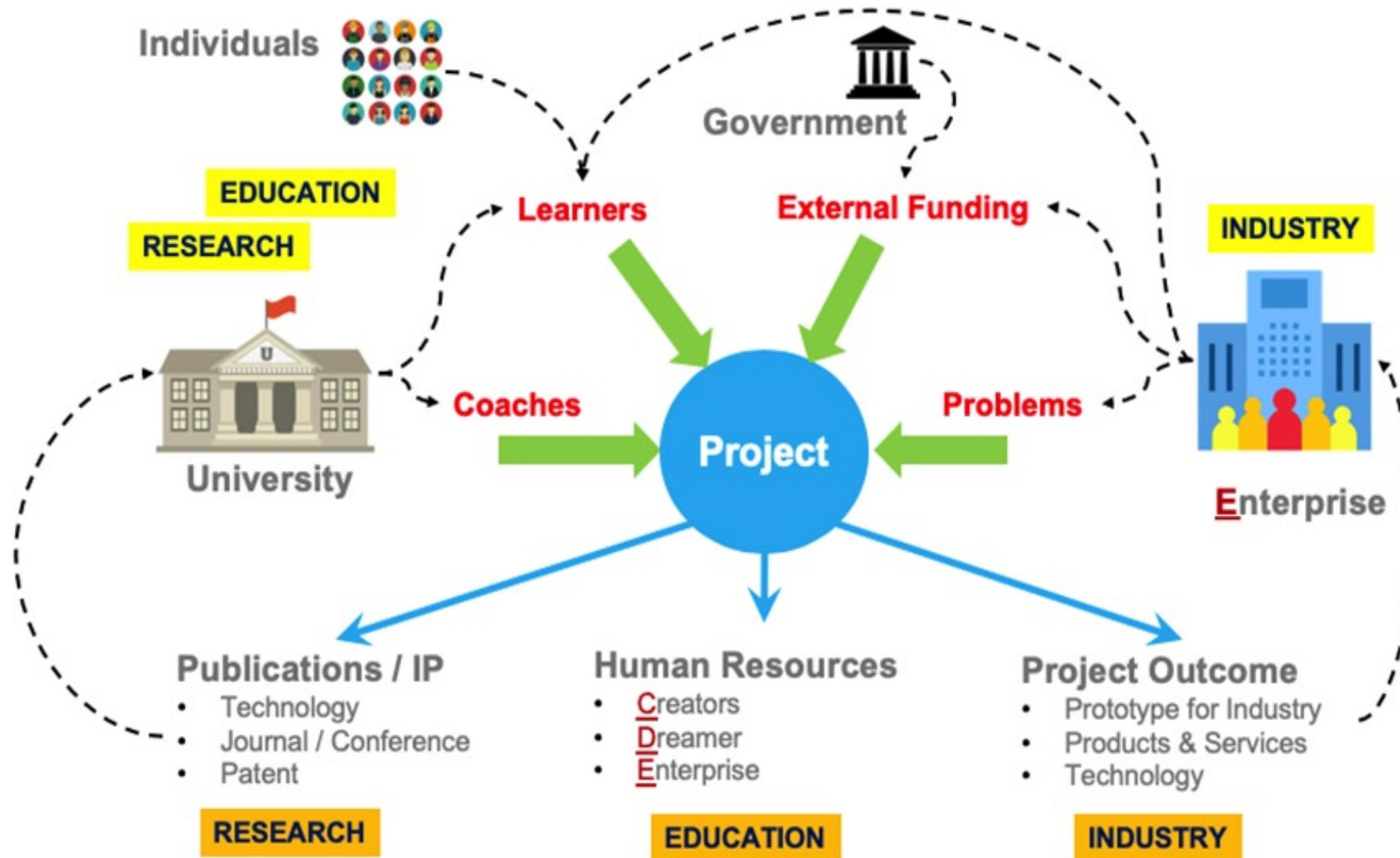


Theme: Robotics for Productivity

Strong Collaborations
with Industries
High Societal/Economic
Impact Project



Collaboration Platform




Education with R&D experience :

Encountering real world problems – WIL / Project-based learning / Lab / Industry

HOSPITAL AUTOMATION

Research Center @ Institute of Field Robotics, KMUTT



"The leading research and development center for hospital automation innovation"

What we do?


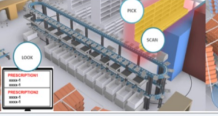
- Research & Develop in robotics for real-world health and medical applications
- Technology transfer & commercialization
- Collaboration



Product Champions

- NEF: On-Bed Movement Monitoring
- Inspectra: AI Radiologist
- SensibleTAB: Rehabilitation Robot
- CARVER: Hospital Logistics System
- Automatic Med Dispensary System
- QPlus: Hospital Process Management

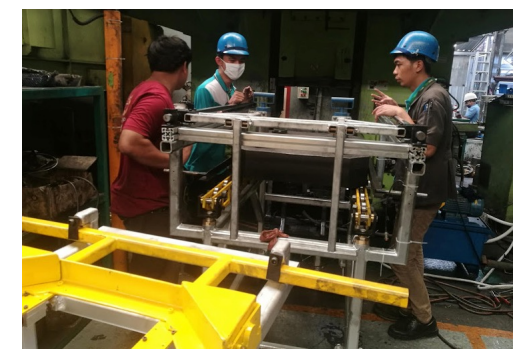
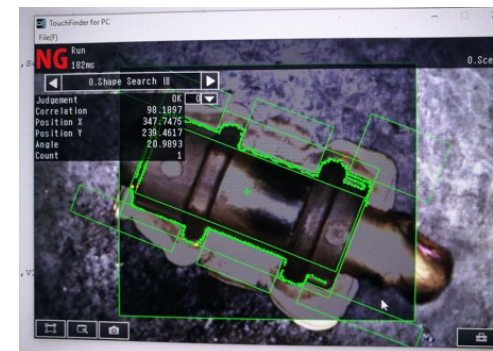
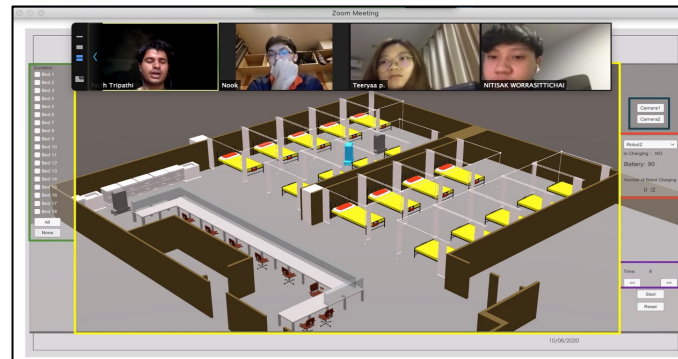
Expertise

- Robotics / Automation
- Artificial Intelligence
- Big Data / Machine Learning
- Computer Vision
- Hospital / Health / Medicine
 - Hospital Logistics
 - Healthcare
 - Pharmacy
 - Rehabilitation
 - Surgery

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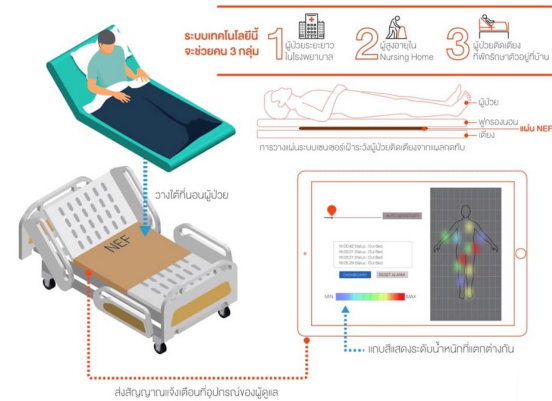


Commercialization: Research to Biz by academics and alumni

หุ่นยนต์ฝึกเดิน GAIT ROBOT

เทคโนโลยีช่วยฟื้นฟูการเดิน
อย่างมีประสิทธิภาพในผู้ป่วย

- โรคหลอดเลือดสมอง
- โรคพาร์กินสัน
- บาดเจ็บที่ไขสันหลัง
- บาดเจ็บหรือได้รับอุบัติเหตุที่สมอง
- สูงอายุ/มีปัญหาทางการเดิน

ANT SOLAR PANEL CLEANING ROBOT

Selling at average rate of 3% per month in Thailand market

Price of solar panel is about 13000

Safe and strong material to highly resistant to heat, UV radiation and mechanical damage

Main Functions:

- Self-cleaning
- Self-charging
- Self-maintenance

Advantages:

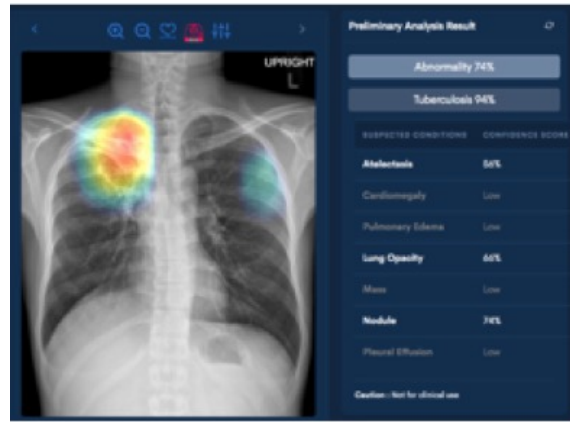
- Operates in harsh weather conditions
- Low maintenance
- Easy to transport and installation
- Low power consumption

Technical Specifications:

- Size: 1.5m x 1.5m x 0.1m
- Weight: 15kg
- Power: 100W
- Battery: 10Ah
- Material: ABS plastic
- Color: White

Testing Results:

- Self-cleaning test
- Self-charging test
- Self-maintenance test

Partnership & Co-opetition

School consortium

Company consortium

โรงเรียนที่ทำความร่วมมือกับสถาบันวิทยาการหุ่นยนต์ภาคสนาม
FIBO-School Consortium



BUSINESS & INDUSTRY PARTNERS (TECH & COMMERCIALIZATION)



USERS (HOSPITALS)



GOVERNMENT / FUNDERS / INCUBATORS

