SUMMER & FALL 2022

OPUS
College of Engineering
MARQUETTE UNIVERSITY
Electrical and Computer Engineering

COEN 4890/EECE 5890 Summer 2022
Developments in Computing:
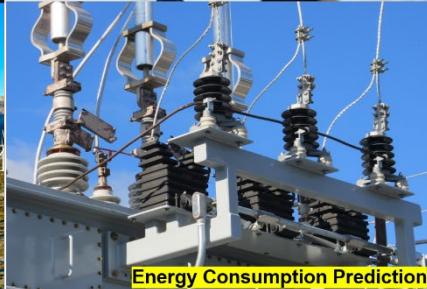**Artificial Intelligence for Industrial Applications**

Industrial Remote Monitoring

Battery Aging Estimation

Wind Turbine Fault Detection

Energy Consumption Prediction

💡 **Define Industrial AI application scenarios** according to their industrial, analytic, and business functions

💡 Identify appropriate solutions based on **Industrial AI case studies**

💡 Recognize how industry developers format **Industrial AI code**

👨‍🏫 **Instructor:**
Dr. Dong Hye Ye, ECE, Marquette University.

FOXCONN iAI 🐦 in f ▶️

COURSE FORMAT

📖 **Asynchronous Online Lecture created by Foxconn iAI**

📖 **Great for Co-op/ Internship Undergraduate or Part-time Graduate**

📖 **Active Discussion and Q&A Forums in D2L led by Instructor**

📖 **Hands-on Coding Lab and Projects with Real Industry Data**

PROJECT EXAMPLES

💡 **Predictive Maintenance**

➤ **Turbofan Engine Lifetime Estimation**

💡 **Virtual Metrology**

➤ **Planarization of Semiconductor Wafers**

💡 **Energy Management**

➤ **Facility Energy Consumption Prediction**

💡 **Machine Vision**

➤ **Quality Inspection of Steel Components**

💡 **Scheduling Optimization**

➤ **Flexible Job-shop Scheduling**