

EXPERT'S PROFILE

Name of Grantee : **JOSE ILDEFONSO U. RUBRICO, Ph.D.**
Area of Expertise : Engineering / Robotics /
Artificial Intelligence (AI)

Inclusive Date of Contract as BSP Awardee : Short-Term Program
18 June – 15 September 2018

Host Institution : ASTI – DOST



EDUCATIONAL BACKGROUND

- **PhD in Engineering / Robotics**, 2006, The University of Tokyo, Japan
- **MS Electrical Engineering**, 2002, UP Diliman
- **BS Electrical Engineering**, 1996, UP Diliman

PROFESSIONAL EXPERIENCE

- 2015-present **Postdoctoral Research Fellow**
The University of Tokyo, Japan
- 2002-2003 **Assistant Professor**
UP Diliman
- 1998-2002 **Instructor**
UP Diliman
- 1998-2002 **Lecturer**
UP Diliman

TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Copy of report / design document of ML-based approach implemented List of researchers mentored
2. Recommendations on choice of mobile robotics platform to be procured
3. Documentations on robot system proof-of-concept, including: target application concept, high-level design, system components, robot platform used, ML-based approach implemented, experiments or simulations conducted.
4. Copy of paper submitted in reputable peer-reviewed scientific journal
5. List of researchers mentored
6. Copy of the proposal with concept: Newly acquired REDAS aerial and land-based images are passed to a trained ML-based ALaM model to identify the types of domiciles in the area of interest. The houses classified by the ALaM model serve as the inputs to REDAS which can then proceed with its earthquake damage assessment
7. Conducted workshop and seminar with ASTI core ML and AI group
8. Submitted at least one peer-reviewed technical paper