

EXPERT'S PROFILE



Name of Grantee : JASPER G. TALLADA, PhD
Area of Expertise : NIR Spectroscopy, Hyperspectral Imaging, Electronic Instrumentation & Control
Inclusive Date of Contract as BSP Awardee : January 2012 –January 2014 (Long-term Program)
Host Institution : Nanodevice Technologies, Inc.
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EDUCATIONAL BACKGROUND

- **PhD in Agricultural Sciences – Agricultural Engineering**, Kagoshima University, Japan, 2006
- **Japanese Language Intensive Course**, Kagoshima University, Japan, 2004
- **MEng in Dev't. Technology - Agricultural Engineering**, University of Melbourne, Australia, 1996
- **BS in Agricultural Engineering**, University of the Philippines (UP)- Los Baños, 1989

WORK EXPERIENCE

- 2008-Present **Post-doctoral Research Engineer**
Center for Grain and Animal Health Research (CGAHR, formerly GMPRC), USDA-ARS, Manhattan, KS
- 2007-2008 **Post-doctoral Research Associate**
Dept. of Biological and Agricultural Engineering
Kansas State University
129 Seaton Hall, Manhattan, KS 66506
Half time appointment with GMPRC, USDA, Manhattan, KS
- 1998-2001 **Assistant Professor 5**
College of Engineering and Agro-industrial Technology (CEAT)
University of the Philippines (UP) - Los Baños
- 2000-2001 **Chairperson**
Department of Engineering Science
College of Engineering and Agro-industrial Technology (CEAT)
University of the Philippines (UP) - Los Baños
- 1992-1994 **Research Assistant**
Agricultural Engineering Division
The International Rice Research Institute (IRRI)
Design and develop agricultural equipment, Research on grain processing-storage and drying; Research on instrumentation systems; Evaluate the level of mechanization of Myanmar and Laos; Off-site research on crop establishment equipment.
- 1990-1992 **Research Assistant**
Agronomy, Plant Physiology and Agro-ecology Division
The International Rice Research Institute (IRRI)
Design data processing systems; Perform statistical analyses and mathematical modeling; Research and maintain instrumentation systems.
- 1988-1990 **Instructor**
College of Engineering and Agro-industrial Technology
University of the Philippines (UP) Los Baños

TO BE ACCOMPLISHED AS A BSP AWARDEE :

1. Work with local electronics industry in the design and fabrication of a general purpose NIR instrument, along with the software design, user interface, and initial calibration for selected target constituents;
2. Configure several working experimental NIR spectrometer measurements set-ups and develop prediction capabilities for various applications;
3. Promote the technology by establishing institutional linkages and developing short-term training courses.