

## EXPERT'S PROFILE

**Name of Grantee:** DR. FELIXBERTO A. BUOT  
**Area of Expertise:** Theoretical condensed matter physics  
**Inclusive Date of Contract as BSP Awardee:** Short-Term Program  
01 July – 30 September 2016 (90 days)  
**Host Institution:** University of San Carlos – Talamban Campus  
**E-mail Address:** [fbuot@gmu.edu](mailto:fbuot@gmu.edu)



### EDUCATIONAL BACKGROUND

**MS Electrical Engineering**, 1980, Stanford University  
**PhD Theoretical Condensed Matter Physics**, 1970, University of Oregon, USA  
**MS Experimental Nuclear Physics**, 1965, UP Diliman  
**BS Mechanical Engineering**, 1960, Cebu Institute of Technology

### WORK EXPERIENCES

2009 - Present      **George Mason University, Fairfax, Virginia, USA**  
Affiliate Professor

**C&LB Research Institute, Carmen, Cebu City**  
Founding Director

2003 – 2009      **George Mason University, Fairfax, Virginia, USA**  
Research professor

1982 - 2003      **Electronics S&T Division, Naval Research Lab, Washington DC.**  
Research Physicist IV

1980 - 1982      **Cornell University, Ithaca, New York, USA**  
Research Associate

1974 - 1975      **Dept. of Physics, St. Francis Xavier, Canada**  
Senior Research Fellow

1960 – 1962      **Dept. of Mechanical Engg, Cebu Institute of Technology**  
Mechanical Eng'g Instructor

### TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Lectures on Topological Insulators and Superconductors, Quantum Field Theory of Condensed Matter, Statistical Physics and Quantum Transport Physics
2. Advanced Research Seminars for M.S and Ph.D. students
3. Tutorial Sessions for MS and Ph.D. students

4. Computer Program Code Development
5. Ph.D. & M.S. Thesis Advising
6. Writing and packaging of research proposals on nanodevice transport physics to be submitted to PCIEERD for funding
7. Research Manuscripts for Publication
8. R&D in Energy Harvesting: High-Efficiency Design Rules
9. Collaboration on the PCIEERD – DOST project entitled “Development of Ink Using Carbon from Straight Pyrolysis of Glycerol as Electrodes in Printed Circuit Electronics”
10. Collaboration on CHED PCARI (endorsed by PCIEERD-DOST) project entitled “Cost-Effective Manufacturing Using Printing Fabrication Technologies for Energy Generation, Conditioning and Monitoring Devices”