



# GR

# GANESH REGMI

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## OBJECTIVE

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I am pursuing my PhD in Electrical engineering specialized in photovoltaic (PV) technology. The understanding of PV combined with the development of new materials as well as chalcopyrite based semiconducting materials and realization of fabrication technology especially PVD technique will allow me to contribute to the major international challenge and provide me high impact results and leading my career to the renewable energy field.

## SKILLS

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- Fabrication of Solar cell
- Leadership and motivating
- computer proficiency

## EXPERIENCE

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### SECONDARY LEVEL TEACHER • MANAGEMENT OPEN SCHOOL • 2012 JAN – 2014 APR

- Instigated an after-school program where students could receive additional assistance.
- Implemented innovative programs to encourage learning through effective interactions.
- Collaborated with parents and other faculty members to set realistic objectives.
- Provided practice tests to boost student performance on actual tests.
- Arranged for field trips to emphasize scientific concepts.
- Graded papers and provide feedback to students.

### PHYSICS LECTURER • HIMALAYAN WHITE HOUSE INT'L COLLEGE • 2015 JUL – 2016 AUG

- Select appropriate teaching materials, books, and course content.
- Maintain laboratory and classroom equipment, ensuring calibration and proper usage.
- Viva and train students for laboratory works

## EDUCATION

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### SCHOOL LEAVING CERTIFICATE (SLC) • 2006 • PADMODAYA MA. VI., KATHMANDU, NEPAL.

First position in the batch 2006



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- SIESTA, MATHEMATICA, origin, SCAPS
- PVD system operation: co-evaporator, Rf sputter, DC sputter
- Operation of XRD, SEM, UV-Visible spectroscopy, Hall measurement, AFM

**HIGHER SECONDARY SCHOOL LEVEL • 2008 • COLUMBUS HSS AND COLLEGE, KATHMANDU, NEPAL**

Good first division with special accomplishments

**BACHELOR OF SCIENCE IN PHYSICS • 2012 • TRICHANDRA MULTIPLE COLLEGE, KATHMANDU, NEPAL**

Obtaining position 4th among 3700 students

**MASTER OF SCIENCE IN PHYSICS • 2015 • CENTRAL DEPARTMENT OF PHYSICS, TRIBHUVAN UNIVERSITY, KATHMANDU NEPAL**

Special accomplishments in a theoretical and practical knowledge

## LANGUAGES

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NEPALI: Mother tongue

ENGLISH: Fluent

HINDI: Conversational

SPANISH: Conversational

## PROJECT

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*synthesis and characterizations of CIGSe Thin film solar cell by co-evaporation technique*

## ACHIEVEMENT

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- Participated in various workshop on computational and experimental physics



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- Attended various seminars on science and technology fields
- Trained on different types of equipment for characterizations
- Synthesized the semiconducting materials for solar cell fabrication.

### **CERTIFICATION AND COURSE**

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- Thin film technology
- Physics of semiconductors
- Sustainable and renewable energy
- Characterization techniques
- GRE conducted by ETS (score:304)

### **HONOR AND AWARD**

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- Dr. Achyutmani Acharya Award 2007
- Different awards on sports and literature



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## **PUBLICATION AND CONFERENCE**

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- synthesis and characterization of ultrathin intrinsic zinc oxide (i-ZnO) films by RF sputtering as a propane gas sensing application (Submitted)
- Characterization of intrinsic zinc oxide thin film by RF sputtering (IMRC 2017 poster work in Cancun Mexico)
- CIGSe stacked layers by co-evaporation technique (**Nominated** poster work for Award in IMRC 2017 Cancun Mexico)
- Synthesis and Characterization of Selenized Stacked CIGSe Layers by Co-evaporation Technique (Submitted to 7th WCPEC, USA)
- Synthesis and characterization of CdS buffer layer for CIGSe based solar cell (Submitted to IMRC 2018)
- Post-Selenization of CIGSe Stacked Metallic Layer Deposited by Co-evaporation Technique (Submitted to IMRC 2018)



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## **REFERENCE**

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Relationship: Supervisor of PhD



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