

**Dichiarazione sostitutiva di certificazioni**

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

**Dichiarazione sostitutiva dell'atto di notorietà**

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	<b>Borsa di ricerca di cui al bando n. 6/2023 dal titolo "Sviluppo di procedure affidabili per la determinazione del danno con tecniche di monitoraggio in ponti moderni"</b>
Informazioni aggiornate al	12/05/2023

Nome e Cognome	Sudip Khatiwada
Luogo di nascita	
Data di nascita	

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

**Esperienza professionale**

<b>Periodo</b>	<b>Ente</b>	<b>Principali attività e responsabilità</b>
June 2022- May 2023	Università degli Studi di Cagliari	<p>Research topic "Structural Monitoring of existing masonry buildings with laboratory tests."</p> <ul style="list-style-type: none"> <li>The research activity concerned the study of building elements in masonry subjected to static and seismic actions, for the development of innovative seismic protection techniques and devices, also concerning the key to energy saving.</li> <li>Performed structural design and analysis of masonry structures with steel tie-rods.</li> <li>Assisted in developing a novel seismic protection device- Linearly Controlled Rocking Device (LiCoRD).</li> <li>Developed optimized excel verification software for installing LiCoRD in various masonry structures.</li> <li>Successfully executed lab tests for pre-tensioning and installing smart sensors in LiCoRD.</li> <li>Initiated feasibility study for a new project Seismic Monitoring Tie-Rocking Device (SMarT-RoD) project.</li> </ul>
Mar 2019- Sept. 2019	National Reconstruction Authority, Government of Nepal (Civil Engineer)	<ul style="list-style-type: none"> <li>Conducted detailed earthquake damage assessment of 30 residential buildings and prepared technical reports.</li> <li>Designed multiple seismic-resistant residential buildings based on Indian Standard (IS) and Nepal Standard (NS) codes, which includes modeling, analyzing, calculating, and preparing structural working drawings using AutoCAD and SAP 2000.</li> </ul>

		<ul style="list-style-type: none"> <li>Performed vulnerability assessment and damage modeling of existing structures and feasibility study for retrofitting.</li> <li>Organized 5 Technical Inspection training for the Housing Reconstruction project for building technicians.</li> <li>Conducted inspection and quality checks for hundreds of newly reconstructed houses against established guidelines for government grants.</li> </ul>
Nov 2017- Mar 2019	Units Engineering Consultancy (P) Ltd., Nepal (Civil Engineer)	<ul style="list-style-type: none"> <li>Coordinated and supervised the construction of new hydroelectric projects from feasibility study and planning to surveying, design, quantity estimation, budgeting, site execution, monitoring, and evaluation, emphasizing teamwork, safety management, and quality control.</li> <li>Performed hydraulic and structural design of hydropower components (weir, settling basins, anchor blocks, powerhouse, etc.) and prepared detailed technical reports and structural drawings.</li> </ul>
May 2017-July 2017	High Himal Hydro Construction (P) Ltd., Nepal. (Engineering Intern)	<ul style="list-style-type: none"> <li>Supervised construction of headworks, headrace canal and syphon of Rudi Khola Hydroelectric project 8.8 MW, Lamjung, Nepal</li> </ul>

### Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
2019-2022	Master's Degree in Civil (Structural) Engineering	Alma Mater Studiorum, Università di Bologna
2013-2017	Bachelor of Civil Engineering	Kathmandu University
June 23 - July 02, 2019	Training on "Earthquake Resistant Building Construction"	National Reconstruction Authority, Government of Nepal
April 05 - April 08, 2019	Training on "Retrofitting of Rural Housing in Nepal"	National Reconstruction Authority, Government of Nepal

### Publicazioni / Convegni

<p>Ferretti F., Khatiwada S., Incerti A., Giacomini G., Tomaro F., De Martino V., Mazzotti C. (2023). "Structural strengthening of masonry elements by reinforced repointing combined with FRCC and CRM". <i>Procedia Structural Integrity</i>, 44, 2254–2261.  <a href="https://doi.org/10.1016/j.prostr.2023.01.288">https://doi.org/10.1016/j.prostr.2023.01.288</a></p>
<p>Sassu M., Ariu M., Deligia M., Khatiwada S.(2023). "On the use of perlite mix design for sensors under airport pavements": <i>Proceedings of the International Conference on Aviation Management and Information Technology</i>, 5-6 January 2023, Miami, USA</p>

**Altre attività scientifiche**

Borsa di ricerca - bando n. 7/2022 dal titolo "Monitoraggio strutturale di costruzioni esistenti in muratura con test di laboratorio" - Università di Cagliari

**Ulteriori informazioni pertinenti**


Luogo, data e firma

Empoli, 12/05/2023