

# SRIJAN LACOUL

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## EDUCATION

*Bachelor of Science in Engineering with Emphasis on Electrical Engineering*, December 2013  
**Texas Christian University**, Fort Worth, TX

## RESEARCH EXPERIENCE

**TCU Department of Engineering – Fluid Dynamics Researcher** 06/2012 – 06/2012

- Scripted 900-line code on 4GL MATLAB computational software
- Programmed Monte Carlo simulations of heat transfer characteristics of nanoparticles in viscous fluids.

**TCU Department of Physics – Optics/Electronics Researcher** 06/2012 – 12/2013

- Prepared and studied nanocomposite materials for surface-related optoelectronic properties
- Programmed LABVIEW software Virtual Instruments for data acquisition and hardware control
- Publication: [Luminescent Properties of Surface Functionalized BaTiO<sub>3</sub> Embedded in PMMA](#)

## WORK EXPERIENCE

**Aerospace Optics, Inc. – Senior Design Software Team** 08/2012 – 08/2013

- Collaborated and liaised with the industry customer and a team of 15 engineers on a \$50,000 engineering project
- Designed and delivered a testing assembly to perform electromechanical tests to military specifications
- Programmed and presented hardware control and data acquisition solutions through LABVIEW Virtual Instruments
- Compiled documentation and profiling of all procedures and components

**The Study Center, Inc. – Researcher and Developer** 06/2012 – 09/2012

- Collaborated with the industry customer for a biomedical engineering product design
- Scripted complete Arduino code for analog-to-digital sensing of EMG signal for triggering keystrokes
- Designed and built a human-machine interfacing solution through an Arduino microcontroller

**TCU International Office – Special Projects Coordinator** 08/2011 – 12/2013

- Designed, and managed logistics and solutions for weekly 'Kinomonda International Film Series at TCU'
- Coordinated social media, and technical support for programs and events for 250+ people
- Managed strategic planning and forecasting of events for TCU International Orientation 2011-13
- Resolved customer service queries and complaints in-person and over the telephone

## PROFESSIONAL SKILLS

- Research, design, development, circuit schematic design, 3D renderings, programming, simulating
- PowerWorld Simulator, NI LABVIEW, MATLAB, PSPICE, Microsoft Office Suite, Autodesk Inventor 3D CAD
- Language proficiency: Professional - English, Hindi, Nepali; Elementary – Spanish
- Elective courses: Digital Signal Processing, Power Systems I-II

## HONORS AND CERTIFICATIONS

- EIT certification from NCEES having passed the FE (Electrical) exam
- 4-year Faculty merit scholarship and full tuition scholarship from Texas Christian University