

## Contact

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## Top Skills

Experimental Physics  
Entrepreneurship  
Higher Education Research

## Publications

Reflection and Transmission of Light  
from Multilayered Films: An easy  
approach, using MATLAB

Measurement of Verdet Constant by  
Faraday Rotation

Arduino based oscilloscope for  
Physlab

Orbital Angular Momentum  
Generation and Detection

Physlock: An Entry-Level Low-Cost  
Lock-In Amplifier Board

# Muhammad Shiraz Ahmad

Experimentalist, Entrepreneur, programmer, and educator.  
Defence Housing Society, Lahore, Pakistan

## Summary

“Automating the tasks, observing people involved in the process, and getting desirable outcomes” makes me feel achieved. The first time, this eagerness was observed when I became a class representative in 2015. I made my cellphone a gateway - sending relevant information, from offline excel file, based on key terms received via SMS.

I worked closely with electronics, programming and entrepreneurship and got the opportunity of comparing all of the fields, planning long term goals, discussing with senior instructors. I concluded choosing the field of programming to go with and looking for relevant carrier opportunities.

## Core Skills

- Software: Matlab, Mathematica, NI Multisim, Adobe Photoshop, Adobe Illustrator, Microsoft Visio  
- Programming languages: Python, C++, LATEX, VLog (FPGA)  
- Hardware prototyping: NI DAQ, Software-defined radio (SDR), Arduino UNO, Lock-in Amplifier  
Email ID: Shiraz.Phy@gmail.com

## Experience

Lahore University of Management Sciences  
6 months

Research Assistant - PhysLab  
December 2019 - Present (3 months)  
Lahore, Pakistan

- Project 1: Ferromagnetic Resonance (Experimental Design & Development)
- Project 2: Nuclear Magnetic Resonance (Prototype Testing)
- Supervisor: Dr. Muhammad Sabieh Anwar

Teaching Assistant (Computational Physics With Python)  
January 2020 - Present (2 months)

Lahore, Pakistan

Teaching Assistant (Physics Laboratory)

September 2019 - Present (6 months)

Lahore, Pakistan

Tuition Hub

Owner and Founder

July 2018 - Present (1 year 8 months)

Pakistan

- Established this online platform to provide students on-demand affordable and highly skilled tutors.
- Registered tutors: 1000+ • Students served: 100+

National University of Computer and Emerging Sciences

Visiting Lecturer (Applied Physics With Matlab)

August 2019 - December 2019 (5 months)

Lahore, Pakistan

Qosain Scientific and PhysLab

Python Developer

June 2019 - August 2019 (3 months)

Lahore, Pakistan

- NumPy, SciPy, Matplotlib, Pandas, PyQt
- Scientific Software Developed (Graphical User Interface):
  - PhysPlot
  - Air Track Analyzer

Lahore University of Management Sciences

Research Assistant - PhysLab

May 2019 - July 2019 (3 months)

Lahore, Pakistan

Project Title: Equipping the Physics laboratory at NUTECH

- Project: Dr. Muhammad Sabieh Anwar

Lahore University of Management Sciences

Graduate Teaching Assistant (Modern Physics)

January 2018 - May 2018 (5 months)

Lahore, Pakistan

NAWA-I-WAQT LIMITED

## Call Center Representative

January 2014 - July 2017 (3 years 7 months)

Multan, Pakistan

During this period, his responsibilities were to:

- Answer(place) incoming(outgoing) calls and direct them to staff, or departments through the PBX system
- Keep records of all calls placed and received
- Receive faxes and send them to the newsroom
- Assign duties to news reporters
- Handle emergency situations

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## Education

Lahore University of Management Sciences

Master of Science - MS, Physics · (2017 - 2019)

Bahauddin Zakariya University

Bachelor of Science - BS, Physics · (2013 - 2017)

British University College Multan

FSc Pre-Engineering · (2011 - 2013)

Government Bukhari Public High School

Matriculation with Science · (2009 - 2011)