MERIN CHIRAYATH ANTONY

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Education

Year	Degree/ Certificate	Institute/ School, City	CGPA/ %
2015	Integrated M.Sc. in Physics	Indian Institute of Technology, Kharagpur, WB	7.53/10
2010	Intermediate (HSE)	Sacred Heart CGHSS, Thrissur, Kerala	94.3 %
2008	Class X (SSLC)	St. Paul's CGHSS, Thrissur, Kerala	96.7 %

Academic Achievements

- Achieved a rank of 145 in **KEAM** Examination among ~1,00,000 students in 2010.
- Ranked within **3**% , of the students appearing in Indian Institute of Technology-Joint Entrance Examination in 2010.
- Recipient of **KVPY** scholarship consecutively for four academic years, 2011-2015.

Personal Achievements

Event	Key Achievements
STATE SCHOOL SCIENCE FAIR,KERALA	•Runner up in the District level Quiz in Mathematics, and was selected to represent the district in the state school science fair. The event was conducted, participating ~ 3, 00,000 students at schools in the grass root level. •Became the runner-up for 3 consecutive academic year 2004-'05, 2005-'06,2006-'07 at District level.

Internships and Projects

Organization	Experience	Duration
IISER Trivandrum under Prof. Rajeev N Kini, School of Physics.	•**Numerically simulated** the phonon propagation in **Bragg-reflector Cavity** constituted by GaAs/AlAs superlattices. • Estimated the transmission and reflection rate of phonon, in the Bragg –reflector cavity, with given acoustic parameters. •Numerically simulated the **field amplitude** of a propagating EM wave in the Bragg-reflector Cavity.	*May '12– July '12*
H R I, Allahabad under Prof: G Venketeswara Pai	•**Analytically studied** the cold atom oscillations in double well potential traps. Numerical simulation matched with the previously existing theoretical studies and agreed with the prediction of MQST phenomena, which is observed in Rydberg atoms.	*May '13– July '13*
Research Centre Imarat, Hyderabad (**DRDO**) Deepak Agarwal	• An extensive **literature review**, on the sensors, currently used in Missile systems was conducted. A review report was made with the specifications. • Made an **analysis report** on the current **satellite systems** in orbit, launched by various organizations /nations by a detailed survey of internet resources. The study serves to identify the requirements of ASAT, a forthcoming mission of DRDO.	*May '14 – July '14*
IIT Kharagpur under Prof: Pragya Shukla	• Identified the properties of Non Hermitian Random Matrices by **numerically analyzing the Eigen value spectrum**. • Made a **semi analytical model** for anharmomic oscillator, and applied these properties to study the Eigen value spectrum.	*Aug '14- April '15*

Soft Skills

Languages	C, Matlab
Tool Box	Solid works, MS Office,Latex, Mathematica
Operating Systems	Windows, Ubuntu, Solaris

Positions of Responsibility

Organization	Position	Key Achievements
Batch Magazine , Sacred Heart School	**Chief Editor**, July'09-Feb'10	• Collected and organized the art and literary contribution of the class, to publish a batch magazine
National Service Scheme (NSS)	**Volunteer**, Jan '11-May'12	• Actively participated in the Medicine collection venture. Collected the unused expensive medicines from the student community and return to the Block Medical Officer, for redistribution.
Physics Society	**Member**, Aug '11-Mar '15	• Active member in the student unit, organized the social events in the Physics Department.

Extracurricular Activities

•Actively contributed for the Hall illumination event in Sarojini Naidu Hall of Residence.
•Participated in the camp conducted by National Initiative for Undergraduate Science (NIUS SCEP-2011), at HBCSE, Mankurd.