
Pratheep Kumar

Nanotechnologist & Theoretical Physicist

email – contact@pratheep.co ♦ website – www.pratheep.co ♦ skype – pratheepkr

EDUCATION

Master of Philosophy (*Nanoscience & Technology*)

Department of Nanoscience & Technology
Bharathiar University,
Coimbatore, India
First Class - (2014)

Master of Science (*Nanoscience & Technology*)

Department of Nanoscience & Technology
Bharathiar University,
Coimbatore, India
Distinction - (2012)

Master of Science (*Physics*)

School of Distance Education
Bharathiar University,
Coimbatore, India
Second Class - (Present)

Bachelor of Science (*Physics*)

Maharaja arts & science college,
Bharathiar University,
Coimbatore, India
Distinction - (2010)

Diploma in Instrumentation

Maharaja arts & science college,
Bharathiar University,
Coimbatore, India
Outstanding - (2010)

Diploma in Computer Application

CSC Computer Education Private Limited
ISO 9001-2000 certified institution
Coimbatore, India
C Grade - (2007)

Higher Secondary School

Govt. Hr. Sec School,
Cheyur, India
Distinction - (2007)

High School

Govt. Hr. Sec School,
Cheyur, India
Distinction - (2005)

RESEARCH EXPERIENCE

- **Working to find a new therapeutic method and drug for cancer with as little side effects as possible**

A new approach to cure cancer by bio entangled physics with nanotechnology whereas a chemical drug is impossible.

Place: Department of Nanoscience & technology, Coimbatore.

2012 – 2014 & 2016 - Present

- **Work that explains how to reduce the under & over etching in micro structure formation**

An attempt to circumvent the problem non-perfect MEMS structures due to different etch-rate in different planes of silicon crystal

Place: Indian Institute of Technology, Hyderabad.

2011 - 2012

ACHIEVEMENTS

- Participated and Won **First place in Quiz** Contest held by “Department of Atomic Energy of India & IGCAR Kalpakkam”
- Participated and secured **second place in Quiz** Contest for super seniors in District level Arts & Literature competitions held by “Department of school education, Tamil nadu”
- Participated and secured **second place in Oration** held by “Government Higher secondary school, Cheyur”
- Obtained **100% attendance** in Maharaja Arts & science College
- Participated in “Finishing School” program held by Bharathiar University in Maharaja Arts & science College.

PROFESSIONAL ACTIVITIES

- Attended the National Conference on “Multifunctional Nanomaterials and Nanomaterials” in Bharathiar University, India. March 24-25, 2011.

EXTRA-CURRICULAR ACTIVITIES

- Participated in National Service Scheme In college
- Enjoying quality time in philosophical debates with various peoples from various organization
- Offering consolation and company to people in need through phone, email and Website

HOBBIES

- Listening to masters like Johann Sebastian Bach, Antonio Lucio Vivaldi, George Frideric Handel, Wolfgang Amadeus Mozart, Joseph Haydn, Ludwig van Beethoven, & Johannes Brahms to rejuvenate soul
- Enjoying Weekend with Medieval music and good literature
- Blogging and Web designing

INSTRUMENTAL EXPOSURE

- Single step furnace for synthesis of CNT's,
- Spin coater,
- Dektak 150 Profilometry,
- Keithley Model 6487 Pico ammeter/Voltage Source for measuring the conductance of CNT-polymer composite,
- 600C Series Electrochemical Analyzer/Workstation for ionic conductivity.
- X-ray Diffractometer- PANalytical X'Pert Pro MPD
- Atomic Force Microscope-Horiba Jobin - FluoroMax 4
- Scanning Electron Microscope
- Thin Films Deposition
 - Thermal Evaporation
 - Sputtering

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- Electrodeposition
 - Sol-Gel,
 - Co-precipitation,
 - Sonochemical,
 - Successive Ionic layer Adsorptions and Reaction.

LANGUAGES KNOWN

- English (US,UK & Canadian) (Near Native)
- Tamil (Native)
- Spanish (Beginner)
- French (Beginner)
- Latin (Beginner)

COMPUTER SKILLS

Operating Skills

Windows	DOS	Unix	Linux
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Languages

C	C++		
Matlab	python	Java	Html

Simulation Softwares

IntelliSuite	AnSys		
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Graphing Softwares

Origin	Python(x,y)	Gnuplot	
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Designing Softwares

AutoCAD	PhotoShop		
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PERSONAL PROFILE

Name	: Pratheep Kumar
Date of Birth	: 01 December 1989
Sex	: Male
Nationality	: Indian

Course	Institution	Marks
M.Phil. Nanoscience & Technology (2012 – 2013)	Department of Nanoscience & Technology, Bharathiar University, India - 641046	76.8 % (90 Credits) Bharathiar University, India
M. Sc. Nanoscience & Technology (2010 - 2012)	Department of Nanoscience & Technology, Bharathiar University, India - 641046	76.8 % (90 Credits) Bharathiar University, India
M. Sc. Physics (- do -)	School of Distance Education, Bharathiar University, India - 641046	Bharathiar University, India
B. Sc. Physics (2007 - 2010)	Maharaja Arts & Science College, India - 641655	76.5 % Bharathiar University, India
Diploma In Instrumentation (2008 - 2010)	Maharaja Arts & Science College, India - 641655	87 % Bharathiar University, India
Diploma In Computer Application (2007)	CSC computer Center India - 641654	C Grade CSC computer Education,
HSC (2007)	Govt. Hr. Sec School, India - 641655	76.17 % Tamil nadu State board
SSLC (2005)	Govt. Hr. Sec School, India - 641655	86.6% Tamil nadu State board
Bharathi Start (2002)	Govt. Hr. Sec School, India - 641655	A grade Everonn Technical Education (I) ltd