

# **Sina Jazani** BSc, MSc, MIPhys, MIMPS

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## Qualifications

**2011 to 2014**    **Physics with Nuclear Physics**    **MSc with extended project**    **University of Tehran**

A final grade of A+ was attained.

Master's thesis title: "Design, Simulation and Fabrication of a Prototype 1.2MeV Cyclotron"

A H magnet for use within a 1.2 MeV cyclotron and capable of producing magnetic field strengths of up to 1.5T was designed, constructed and tested in this extended project. The design was carried out using the SolidWorks software utilizing the simulated / calculated results from the CST, Poisson Superfish and Opera 3D codes. The magnet was constructed and the fields were measured using a commercially available Hall Effect Tesla meters. The magnetic fields were confirmed to fall within acceptable accuracy requirements.

**2007 to 2011**    **Physics with Nuclear Physics**    **BSc(Hons)**    **University of Urmia, Iran**

A final grade of B was attained which was ranked within the top 10% of Bachelors graduates.

Bachelor's thesis title: "Utilizing Satellite X-ray Observatories to Identify Black Holes"

Imaging data from X-ray satellites such as Chandra were analyzed and probable presence of Black Holes was established.

**2005 to 2006**    **Mathematics and Physics**    **College Diploma**    **Tehran, Iran**

A final grade of A+ was attained.

## Employment

**2013 to present**    **Assistant Physicist**    **RP &S Ltd**    **United Kingdom**

Assistance with data generation and analysis in the areas of ionizing and non-ionizing radiation shielding (www.radprosol.com). Experience gained in the applications of radiation transport and propagation including also simulations and data analysis.

**2014 to present**    **Shares and Stocks Trader**    **Tehran Stock Exchange**    **Tehran**

Electronic dealing in shares and stock. Performances and trends analysis of various financial sectors. Familiarity with financial institutions and structures.

**2012 to present**    **Private Tuition**    **NA**    **Tehran**

Providing private tuition to pre- university students in the areas of mathematics and physics further familiarization with core mathematics and physics subjects. Gaining of teaching experience.

**Fall 2013**    **Assessment Assistant**    **Physics Department**    **University of Urmia**

Responsible for marking of undergraduate General Physics Levels I and II examination papers. Familiarity with judging the validity and appreciation of variations in physics subjects problem solving and understandings.

**2012 to 2014**    **Laboratory Assistant**    **Cyclotron Laboratory**    **University of Tehran**

Responsible for laboratory maintenance and quality control management. Familiarization with electronics, hardware control systems, vacuum systems, data collection and processing instrumentation. Experiment set-up, demonstrations, supervision and training for undergraduate and graduate students.

**Fall 2008**    **Teaching Assistant**    **Physics Department**    **University of Urmia**

Responsible for undergraduate tutorial sessions in physics subjects. Further familiarization with physics subjects through problem solving. Gaining of teaching and supervision experience.

**2002 to present**    **Seasonal Farm Worker/ Supervisor**    **Arable Farm(s)**    **Natanz, Iran**

Responsible for and management of irrigation requirements. Familiarity with irrigation requirements of arable farming. Scheduling and time management including also management of farm workers team working.

**2002 to 2004 Seasonal Shop Assistant Co-operative Supermarket Natanz, Iran**  
Sales cashier. Experience of trading principles and interaction with customers.

## Academic Awards and Honor

**2013 Masters Distinction Physics Department University of Tehran**  
Top ranked academic achievement award amongst Nuclear Physics Masters graduates.

**2011 Ranked > 99.4% University Masters Entrance Iran**  
Ranked 148<sup>th</sup> in National University Entrance Examinations out of the about 25,000 participants.

**2011 Ranked > 90% BSc Final Awards University of Urmia**  
Ranked within the top 10% of Bachelors graduates.

## Academic and Research Skills

Data Generation	Finite Element EM Simulation Code	Poisson Superfish	Proficient	<a href="http://www.laagc.lanl.gov">www.laagc.lanl.gov</a>
Data Generation	Finite Element EM Simulation Code	CST	Intermediate	<a href="http://www.cst.com">www.cst.com</a>
Data Generation	Finite Element EM Simulation Code	Opera Tosca	Intermediate	<a href="http://www.operafea.com">www.operafea.com</a>
Data Generation	Finite Element EM Simulation Code	Simion	Intermediate	<a href="http://www.simion.com">www.simion.com</a>
Data Generation	Finite Element simulation Code	Ansys	Intermediate	<a href="http://www.ansys.com">www.ansys.com</a>
Data Generation	Lattice Boltzmann methods	OpenLB	Intermediate	<a href="http://www.optilb.com">www.optilb.com</a>
Data Analysis	Deterministic Analysis and Plotting	GnuPlot	Proficient	<a href="http://www.gnuplot.info">www.gnuplot.info</a>
Data Analysis	General Mathematics Analysis	Matlab	Intermediate	<a href="http://www.mathworks.com">www.mathworks.com</a>
Data Analysis	General Mathematics Analysis	Mathematica	Proficient	<a href="http://www.wolfram.com">www.wolfram.com</a>
Design	Na	SolidWorks	Proficient	<a href="http://www.solidworks.com">www.solidworks.com</a>
Design	Na	AutoCad	Intermediate	<a href="http://www.autodesk.com">www.autodesk.com</a>
Design	Na	Catia	Proficient	<a href="http://www.3ds.com">www.3ds.com</a>
Programming	C and C++	DEV	Intermediate	<a href="http://www.bloodshed.net">www.bloodshed.net</a>
General IT	Microsoft Office Family	Microsoft	Proficient	<a href="http://www.microsoft.com">www.microsoft.com</a>
General IT	Adobe Photoshop & Illustrator	Adobe	Proficient	<a href="http://www.adobe.com">www.adobe.com</a>

## Professional Memberships

**Corporate Member Physics Society Iran [www.psi.ir](http://www.psi.ir)**  
**Graduate Member Medical Physics Society Iran [www.iamp.ir](http://www.iamp.ir)**

## Personal Interests and Activities

**Vocational** Farming and irrigation, Physics & Math Tutoring, Stocks & Shares, Electronics Circuits  
**Sports** Rock Climbing, Trekking, Swimming, Table Tennis  
**Hobbies** History, Sociology, Fiction, Music, Puzzle

## Miscellaneous

Workshop Attendance 2013 “Accelerator Design and Optimization” SB University Tehran

Oral Presentation	2012	“Simulation and Construction of a Prototype Proton-Cyclotron”	Tehran University	Tehran
Editor	2011-2012	“Frequency Magazine”	Physics Department	University of Tehran
Translator	2008-2009	“Brain Race Magazine”	Physics Department	University of Urmia

## References

Contact details available on request.