

CIRRICULUM VITAE

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EDUCATION

- MIDDLEBURY COLLEGE, Vermont, Bachelor of Arts, Physics, Economics. 2008 - 2012
- ROOTS COLLEGE INTERNATIONAL, Pakistan, Cambridge A-Levels. 2006 - 2007
- SAINT MARRY'S ACADEMY, Pakistan, Cambridge AS Level, O-Levels. 2004 - 2006

QUALIFICATIONS & TEST SCORES

- *Middlebury College* GPA: 3.* out of 4.0
- *GRE Scores*: Verbal 16* (**%), Quantitative 16* (9**%)
- *SAT Reasoning*: Verbal 600, Math 770, Writing 660
- *SAT Subject Scores*: Math II 800, Physics 800, Chemistry 800, Biology-M 800
- *Cambridge A-Levels*: 4 A's in Physics, Chemistry, Biology, Mathematics
- *Cambridge O-Levels*: 7 A's in Physics, Chemistry, Biology, Mathematics, Islamic Studies, Pakistan Studies, Urdu, and 1 B in English Language
- *TOEFL (ibt)*: 109 out of 120

SKILLS & EXPERTISE

- *Programming Skills*: Java, JavaScript, Ruby, HTML, VBA, Python, PHP
- *Software*: UNIX, Mathematica, LabVIEW, Igor, Eclipse, AutoCAD, MS Excel, Stata, EViews, Minitab
- *Language Skills*:
 - Urdu: Native fluency in speaking, reading, and writing
 - Hindi: Native fluency in speaking
 - Arabic: Basic in speaking, proficient in reading and writing
 - Mandarin: Basic in speaking
 - Sanskrit: Basic in speaking

ACADEMIC HONORS

- Member: American Physical Society, 2011 - present
- Executive member: National Society for Professional Engineers, 2011 - present
- Saba & Suhail Shaikh' 92 Scholar for 2010, 2011 and 2012, awarded to an international student at Middlebury College who shows outstanding academic and leadership potential
- Middlebury College Dean's Honor's List for Fall 2008, Spring 2009, Fall 2011, Spring 2012
- Middlebury College Scholar's List for Spring 2010, Fall 2010, Spring 2011
- Middlebury College Interfaith Cooperation Award 2010-11, awarded by the Scott Center for Religious Affairs
- Only student in Pakistan in 2007 to score perfect SAT subject test scores in four sciences
- Roots College International full-tuition scholarship recipient for Cambridge A-Levels
- St. Mary's Academy full-tuition scholarship recipient for Cambridge AS-Levels
- Member of the preliminary team to represent Pakistan in the International Chemistry Olympiad 2006

UNDERGRADUATE RESEARCH INVOLVEMENT

- The curious case of the SR830: Documenting and explaining the deviations of the SR830 lock-in amplifier from a Butterworth-filter based theoretical model, *for Physics Senior Thesis, Middlebury College, Spring 2012*
- Perceptions in the U.S. of Pakistan's socio-economic policies, *at National Planning & Development Commission, Government of Pakistan, 2011*
- Use of lock-in amplifiers in detecting weak photo-signals from large distances, *for Experimental Physics, Independent Lab Project, Middlebury College, 2011*
- Intelligent Crime Detection at Public Places *at Image Processing Center, National University of Science and Technology, Pakistan, 2010*
- In Trade We Trust: The correlation between trade liberalization and HIV prevalence in sub-Saharan Africa, *with Anil Menon for Regression Analysis, Middlebury College, 2010*
- Documenting Price Puzzle in Pakistan: Positive response of inflationary indexes to a positive monetary policy shock, *at The State Bank of Pakistan, 2010*

WORK EXPERIENCE

- HBO INC. - DIGITAL PRODUCTS, New York, NY, *Technology Consultant*, Jun. 2012 - present
 - Analyzed the big data generated by HBO Go applications, using software called Splunk, to explore the correlation amongst various IT server performance metrics, leading to a 10% increase in the troubleshooting process of the web service.
 - Increased the interactivity of HBO's data analysis infrastructure by building two XML dashboards and developing a time-range-picker function.
 - Spearheaded HBO's research on Nginx servers to replace Apache for 30% faster response times and greater flexibility.
- **DEPT. OF PHYSICS, Middlebury College, *Teaching Assistant*, Spring 2012
 - Assisted students of Electricity & Magnetism introductory course in clarifying complex concepts, understanding homework problems, and devising strategies for problem sets and exams.
 - Led weekly TA sessions, graded assignments, and managed student performance in the course.
- **DEPT. OF COMPUTER SCIENCE, Middlebury College, *Teaching Assistant*, Spring 2012
 - Graded weekly theory and programming assignments of Python based Introductory Computer Science class.
 - Assisted the professor with grade management by maintaining an Excel database for grade assessment.
- ENERNOC INC., Boston, MA, *Energy Efficiency Intern*, Jan. - Feb. 2012
 - Streamlined the data gathering processes by 65% by developing VBA macros for eight complex Excel functions including obtaining electrical consumption, per employee, from the EIA website.
 - Assisted project managers in deploying building management systems and installing network jacks and gateways at eleven commercial sites in Boston.
 - Worked with the hardware engineering team in the internal development of iLon S3 replacement device. Carried out a feasibility study of the product to estimate a 9% reduction in post-launch deployment costs.
- PLANNING COMMISSION, Government of Pakistan, *Economic Consultant*, Summer 2011
 - Researched on the perceptions of Pakistan's developmental policies amongst US think tanks and economists; 40-page report presented to the honorable Prime Minister of Pakistan and accepted for a peer-review.
 - Worked as a part of the 'Growth Strategy' team; researching, compiling and analyzing Pakistan's socio-economic data.
- BARCLAYS CAPITAL, Islamabad, Pakistan, *Summer Analyst*, Summer 2010
 - Conducted market research and prepared a comprehensive 20-page industry overview report on the telecom sector of Pakistan.

- NATIONAL UNIVERSITY OF SCIENCE & TECH., Pakistan, *Research Assistant*, Summer 2010
 - Gathered and organized literature at the Image Processing Center on a thesis project titled “Intelligent Crime Detection at Public Places” – studied image processing techniques for human recognition.
- STATE BANK OF PAKISTAN, Karachi, Pakistan, *Research Analyst*, Summer 2009
 - Conducted econometric research on the presence of ‘Price Puzzle’ in Pakistan – a positive response of inflation to monetary tightening; presented findings to bank’s acting governor during the State Bank’s weekly scholar sessions.
- **TEAGLE FOUNDATION, Middlebury College, *Research Assistant*, 2008 - 2010
 - Research Assistant for Prof. Kathleen Skubikowski on the project ‘Navigating a Liberal Arts Education’. Organized and conducted interviews of liberal arts students in Middlebury and managed project database in coordination with six other liberal arts colleges.
- **CENTER FOR TEACHING LEARNING & RESEARCH, Middlebury College, *Office Manager*, 2009 - 2012
 - Student manager of the primary educational support department at Middlebury College.
 - Managed student-tutor assignments, and served as the point person for students’ academic help.
- **TECHNOLOGY AND MEDIA SERVICES, Middlebury College, *Audio and Visual Specialist*, 2009-2012
 - Supported students and professors with media related issues in smart classrooms.
 - Conducted and oversaw college media related events, such as weekly screenings, as a trained 35mm projectionist.

** *Represents on-campus jobs.*

SCIENCE HONORS & ACTIVITIES

- SAINT MARY’S ACADEMY SCIENCE FAIR, *Roots College Team Representative*, 2007
- GIK INSTITUTE OF TECHNOLOGY ANNUAL SCIENCE FAIR, *School Team Leader*, 2007
 - Worked on and developed a science project involving an engineered shoe which converted the locomotive energy while walking into electricity.
- NATIONAL CHEMISTRY TALENT CONTEST, Higher Education Commission Pakistan, 2006
 - Selected amongst the top 30 students from Pakistan to represent Pakistan in International Chemistry Olympiad.
 - Attended an intensive chemistry training camp at HEJ Research Institute of Chemistry, University of Karachi.

VOLUNTEER & COMMUNITY SERVICE

- CENTER FOR COLLEGE ACTIVITIES AND LEADERSHIP, Middlebury College, *Cricket Instructor*, 2012
 - Organized and led a 4-week winter term workshop for beginner and intermediate level.
- AI-SHIFA FOUNDATION HOSPITAL, Islamabad, Pakistan, *Chairman Student's Wing*, 2006 - 2009
 - Organized and managed a batch of eighty interns for an eight week social work internship at the 100-bed hospital.
 - Directed the marketing division of the institution's Ramadan fund-raiser campaign successfully to raise \$6,000 by devising a new strategy of targeting regional elite schools.
- INTERNATIONAL ORGANIZATION FOR MIGRATION, Kashmir, *Volunteer*, 2007
 - Helped establish, managed and taught at a refugee school in Muzafarabad, Kashmir, in aftermaths of the 2005 earthquake in Pakistan.
- ARMED FORCES INSTITUTE OF REHABILITATION MEDICINE, Pakistan, *Intern*, 2006
 - Prepared progress report for the 'Army Hospital Patient Satisfaction Program'.
 - Proposed and initiated the establishment of the Earthquake Victims Rehabilitation Initiative.

LEADERSHIP EXPERIENCE

- President, Cricket Club Middlebury College, 2009 - 2012
- President, South Asian Student's Association, Middlebury College, 2010-11
- Co-President, Islamic Society of Middlebury College, 2010-11
- President, Middlebury Model United Nations, 2009-10
- Treasurer, Islamic Society of Middlebury College, 2011-12
- Treasurer, South Asian Student's Association, Middlebury College, 2009-10
- First Year Liaison, Islamic Society of Middlebury College, 2009-10
- Chairman, Young Friends of Al-Shifa, Al-Shifa Trust Foundation Eye Hospital, 2007-08
- Co-chair and Founder, Roots College Science Club, 2006-07

ADDITIONAL INTERESTS

- Teaching, kite flying, cricket, soccer, and EA Fifa gaming.