

Mohd Adnan Khan
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Education:

- 2010-2014 King Abdullah University of Science and Technology, Thuwal (KSA)
Candidate for degree in Doctor of Philosophy (PhD) in Organic Ferroelectric Memory devices on flexible substrates, under the supervision of Dr Husam Al Shareef
- 2009-2010 King Abdullah University of Science and Technology, Thuwal (KSA)
MS. Materials Science and Engineering
CGPA= 3.78/4.0
- 2005-2009 King Fahd University Of Petroleum and Minerals, Dhahran (KSA)
BSc. in Computer Engineering
CGPA= 3.89/4.0

Publications:

- 2011 M.A.Khan, Unnat S. Bhansali, and H. N. Alshareef, "Fabrication and Characterization of all-polymer, transparent ferroelectric capacitors on flexible substrates", Organic Electronics (2011)
- 2010 M.A. Khan, M.A. Mukaddam, U. Schwingenschlögl, "Buckled graphene: A model study based on density functional theory", Chemical Physics Letters (2010)

Research and Academic Projects:

- 2009 Research Project under the supervision of Dr Udo Schwingenschloegl. Density Functional Calculations (DFT) to help study the band structure and properties of materials. I worked on the buckling effect in graphene, strain engineering in graphene.
- 2009 Two month Summer Research Project at **Imperial College, London**. Involved training on Materials Modeling and Simulation using the ASW package.
- 2007 Grader for math and computer science courses in KFUPM for 3 semesters.

Skills:

- Authorized user in the clean room with experience of lithography process. Experience with spin coating, mask alignment, and etching processes.
- Skilled with AFM (Atomic Force Microscopy) and X-ray diffraction methods (Powder and Thin Films), IR spectroscopy.
- Excellent knowledge of C, C++, Java and assembly language programming.
- Excellent knowledge of simulation software like Mat lab, Win Spice, Pspice, Logic Works 4.0, Win plot, Pspice9.1, Context Editor and Xilinx
- Proficient in using Oracle iSQL*Plus database system.
- Proficient in using Linux and Windows Operating systems.

Internship:

2008 Seven Month internship at **Saudi Aramco** as a Risk Analyst. Responsibilities include Risk Assessment & Analysis of Saudi Aramco IT Network, Penetration Testing, Security Code Review and Compliance Assessment.

Certification and Awards:

- CCNA Certified (Cisco Certified Network Associate)
- Latest TOEFL Score – 112/120 (IBT)
- KAUST – Discovery Scholarship Award
- KAUST – Provost Scholarship Award for Academic Excellence
- KFUPM DEAN'S LIST OF HONOR STUDENTS (2005-2009) (Top 10 %)

Activities and Communication:

- Student President of Materials Science and Engineering, KAUST
- Member of the Founding Graduate Student Council , KAUST
- Founding member of Business and Entrepreneurship Club , KAUST
- Participated in Social Engineering Campaign in Saudi Aramco
- Excellent oral and written command of English, Urdu, Hindi languages.

Affiliations:

2008-2010 Member of IEEE(Institute for Electrical and Electronic Engineers.) – Participated in various seminars and workshops

2008 Media in charge of IET –KFUPM Young members club – Responsible of spreading awareness about the club and organizing events and talks

2007 Member of Saudi Arabian Chemical Society

2006 Member of Computer Science and Engineering Club, K.F.U.P.M.

References:

- Dr Husam AlShareef, Associate Professor at Department of Material Science and Engineering, KAUST. husam.alshareef@kaust.edu.sa
- Dr Talaat Al-Kassab, Associate Professor at Department of Material Science and Engineering, KAUST. talaat.kassab@kaust.edu.sa
- Dr Udo Schwingenschloegl, Assistant Professor at the Department of Material Science and Engineering, KAUST. udo.schwingenschloegl@kaust.edu.sa
- Dr Ghassan Jabbour, Full Professor at Department of Material Science and Engineering, KAUST. ghassan.jabbour@kaust.edu.sa