NUPUR MAHESHWARI

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I am Nanotechnology Engineer by education. I am passionate about problem solving and pushing the limits to learn new skills for personal and professional improvement. I am looking to transition into a Business Development and Sales role to grow my career.

WORK EXPERIENCE

Smarter Alloys Jan 2017 -May 2018
Materials Research Engineer *Waterloo, Ontario*

- Prototype, test and scale up of custom technical solutions of shape memory alloys for applications in medical devices, automotive and consumer goods.
- Market research and intelligence for product improvement and materials innovation.
- Troubleshooting laser equipment, software and hardware for machinery in house.
- Video production and making powerpoint presentations for trade shows, investors and government agencies.

University of Waterloo June 2014 -Aug 2016
Graduate Student Researcher *Waterloo, Ontario*

- Formulated a process for large scale printing of nanowire inks onto textiles for wearables.
- Presented my research work at 3 conferences and 3 Minute Thesis competition (2016).
- Outreach, marketing, fundraising and organizing academic and social events (2015-16) for 200 engineering graduate students.

University of California, Santa Barbara May 2013 - Aug 2013 and Sept 2011 - April 2012
Junior Researcher *Santa Barbara, California*

- Developed a technique to synthesize high performance DNA aptamers for applications in biosensors, reducing process time by 60 hours compared to existing technologies.
- Worked with a team of 7 scientists and graduate students to organize and publish the research work.

University of Waterloo May 2010 - Aug 2011
Research Assistant *Waterloo, Ontario*

- Designed experiments to study the tribology of orthopedic implant materials for spinal and hip implants.
- Trained co-op students on wear testing machines and protocols for project continuation.
- Published 5 abstracts and presented 2 posters at 3 international conferences on the research work.

PUBLICATIONS

1. Atwa, Y.,Maheshwari, N., Goldthorpe, I.A. (2015) "Silver nanowire coated threads for electrically conductive textiles", Journal of Materials Chemistry C

2. Wang, J.P., Gong, Q., Maheshwari, N., Eisenstein, M., Arcila, M.L., Kosik, K.S., Soh, H.T. (2014) "Particle Display: A Quantitative Screening Method for Generating High-Affinity Aptamers", Angewandte Chemie 126 (19) 48964901

EDUCATION

University of Waterloo *June 2014 - Aug 2016*
Master of Applied Science in Electrical and Computer Engineering - Nanotechnology Option
Thesis title: Electrically Conductive Textiles enabled by Silver Nanowires
Advisor: Prof. Irene A. Goldthorpe

University of Waterloo *Sept 2009 - May 2014*
Bachelor of Applied Science in Nanotechnology Engineering, Co-op Program, With Distinction

Technical University of Denmark, Lyngby, Denmark *Sept 2012 - Dec 2012*
International Academic Exchange

AWARDS AND SCHOLARSHIPS

1. WIN Nanofellowship (10,000$), 2014, 2015, University of Waterloo
2. Ontario Graduate Scholarship (25,000$), 2015, University of Waterloo
3. Oral presentation award, Senior Undergraduate Design Project, 2014, University of Waterloo
4. NSERC Undergraduate Research Award, 2011, University of Waterloo

TECHNICAL COMPETENCIES

Expertise in Research and Development, Prototype design and Digital Marketing

Software: Microsoft Office (Word, Excel, Powerpoint, Outlook), CAD, MATLAB, LaTeX, Video Editing
Programming languages: G Code, HTML, CSS, Javascript

VOLUNTEER AND LEADERSHIP

1. Vice President Operations, Waterloo Institute of Nanotechnology Graduate Student Society, University of Waterloo, 2015-16
2. Toronto International Film Festival (TIFF) Volunteer, TIFF, Toronto, 2015
3. Operations Associate, Engineers in Medicine, University of Waterloo, 2014-2015

PERSONAL INTERESTS

Language skills:
English: Native
Hindi: Native
German: Beginner