Biographical Sketch — Dr. Gopal Nadkarni

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PROFESSIONAL PREPARATION

BMS College of Engg., Bangalore, India	Mechanical Engineering	**B.E.,** 1981
University of Waterloo, Waterloo, Canada	Mechanical Engineering	**MA.Sc.,** 1984
University of New Brunswick, Fredericton, Canada	Mechanical Engineering	**Ph.D.,** 2002

Ph.D. Dissertation: Thermomechanical Processing of Ti-Microalloyed Steels

APPOINTMENTS

Since 10/16	Assoc. Professor of Mech. Engineering, *The University of Akron*, Akron, OH
03/014 – 10/16	Director, Proof Of Concept Initiative, Innovation Practice Center, *The University of Akron*, Akron, OH
05/12 – 01/14	Vice President, New Technologies Division, *Shale Inland Inc.*, Chicago, USA
8/09 – 04/12	Strategy & Marketing Manager, *Arceleor Mittal Inc*. Chicago, IL
05/99 – 07/09	Lead Technology Manager, *ArcelorMittal R&D,* Gary, IN
05/91 – 04/99	Assoc. Professor of Mechanical Engineering, *The University of New Brunswick*, Fredericton, Canada
02/90 – 04/91	Post Doctoral Research Fellow– Thermomechanical Processing, *Queen's University,* Kingston, Canada
05/89 – 01/90	Research Scientist – Tribology Laboratory, *Alcoa Research and Development Laboratory,* Kingston, Canada
08/81-05/82	Field Technology Solutions Engineer, Widia India (now Kennametal), Bangalore, India

PRODUCTS

(i) Products Related to Proposed Effort († represents corresponding author)

1. **G.Nadkarni**†, E.Ball, D. Hampu, The NSF-ICORP Implementation and Learnings, to the ICTIEE Transformations In Engineering Education Conference, Bangalore, Jan 5-8, 2014., Vol. 28 Issue 2&3, Journal of Online Journal of Engineering Education Transformations (JEET).

2. Nicholas G. Garafolo, Harry J. Harris and **Gopal R. Nadkarni**†, "Protective Equipment with Cooling and Heating ", Patent Pending. Provisional U.S Patent number 62/370,909, filed 4 August 2016. Also as UA 1287.

(ii) Other Significant Products (Commercial Research Activity)

1. A. H. Mohammed, M.Alhadri, W. Zakri, H. Aliniagerdroudbari, R. Esmaeeli, S.R. Hashemi, **G. Nadkarni†**, S. Farhad, " Design and Comparison of Cooling Plates for a Prismatic Lithium-Ion Battery for Electrified Vehicles, SAE World Congress, SAE Paper 18HX-0034/2018-01-1188. Accepted.
2. **G.Nadkarni†**, N.Lazaridis, C. Horvath, "AHSS Material Selection Strategies for Advanced Body Structures, International Automotive Body Congress, Ann Arbor, MI, September 20-21, 2005.

SYNERGISTIC ACTIVITIES

1. **Entrepreneurial Activity:** I am the co-founder of Yugat Farming Technologies Ltd., Bangalore, India(2016), a venture backed enterprise that aims to provide solutions to fresh, healthy ecofriendly produce in India in water challenged areas. I am also an investing founder in Shale Inland Corp. (2012).
2. **Early Stage Technology Commercialization:** I was the Founding Director of the Proof of Concept LEAP Funding Initiative (2014-2016) at the University of Akron. The Initiative has funded 9 projects over the last two years, and has seen 4 startups and 3 licenses being executed after POC funding. All the companies have gone on the raise significant other funding. I have organized and moderated the "Proof of Concept" panel at the Deshpande Symposium 2016, University of Mass. (Amherst) with panelists from nationally known universities and industries with strong technology commercialization programs. I have offered "Innovation and Entrepreneurship" Workshops in India that have been well received.
3. **NSF Related Activity:** I have been an NSF I-CORPS Program Mentor and Advisor to I-Corps at Ohio Teams twice, and am a regular instructor and mentor to the NSF I-Corps Sites Program at the University of Akron. I serve regularly as a panelist for NSF SBIR/STTR proposal review panels, and a reviewer for journals in Engineering Education.
4. **Entrepreneurship Education:** Ideveloped three entrepreneurship based courses "*Commercialization of UA Technologies*" and "*Discovery to Impact: How to take an Invention to Market*" and "*Technology Based Startups: Focus Biomimicry*" (Funded by Venturewell) based off Lean Launchpad Principles. I have also been active in summer entrepreneurship programs at UA. I am advising or advised over 6 graduate, 20 undergraduate students, 6 high school students in design/entrepreneurial activities. I am a Board Member of NEOSVF (a student based Venture Fund) and Faculty Advisor to the Entrepreneurship Club. I am in the process of establishing the "Concept to Commercialization *Laboratory"* at the UA College of Engineering to serve the go-to-market needs of UA Technology based Researchers
5. **North East Ohio Technology Startups:** I am an official industrial mentor to several North East Ohio Companies through the Jumpstart Mentoring program. I am serving as a selection committee member (2014-present) for the GLIDE Innovation fund that serves startups throughout NE Ohio, and am a selection due diligence committee member for the Akron Bio-Investment Funds II (2016). I am also serving to design and develop the Bits and Atoms initiative which aims to develop a startup collaborative space and makerspace in the greater Akron area.