Debjyoti Banerjee

Excerpts

Dr. Debjyoti ("Deb") Banerjee received his Ph.D. in Mechanical Engineering from UCLA (with minor in MEMS). He received 3 M.S. degrees and was invited to 4 national honor societies. He attended the Indian Institute of Technology (IIT), Kharagpur for his Bachelor of Technology (Honors). Dr. Banerjee received 15 US patents**,** from his work at *ABI*, *Ciphergen Biosystems*, *NanoInk*, *Coventor Inc.* and *TAMU*. He received the "Amlan Sen *Best Mechanical Engineering Student Award (Endowment)*" at the graduation convocation at IIT and the "J.C. Bose *National Science Talent Scholarship*" from the Govt. of India.

Bio

Dr. Debjyoti ("Deb") Banerjee received his Ph.D. in Mechanical Engineering from UCLA (with minor in MEMS). He received 3 M.S. degrees and was invited to 4 national honor societies. He attended the Indian Institute of Technology (IIT), Kharagpur for his Bachelor of Technology (Honors). Prior to TAMU, Dr. Banerjee worked as a *Manager of Advanced Research & Technology (ART)* group at *Applied Biosystems Inc. (ABI)*, CA, (currently merged into *Life Technologies*). Also as a *Hiring Manager* at *ABI* he hired ~ 30 PhDs in ~6 months and managed a group of 10 ~ 15 Ph.D. engineers / scientists. Previously in a singular capacity, he developed from concept to a commercial product at NanoInk Inc. (called "InkWells™", which are microfluidic platforms used for bio/nano-lithography of bio-molecules such as collagens/ proteins, nucleic acids, etc.).

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Technology Commercialization: He co-Founded *Thermascape Technologies Inc. (TTI)* to commercialize his inventions. At the *Texas New Ventures Competition (TNVC-2017)*, TTI won the *5th Prize* (overall category), the "*Amerra Visualization Prize*" and the "*AM Center Innovation Center Prize*".

Also, he mentored a team of students at TAMU for designing, fabricating, assembling and testing of a supplementary cooling system involving Phase Change Materials (PCM) integrated into a set of heat exchangers (manufactured by Additive Manufacturing/ 3-D Printing) as a Latent Heat Thermal Energy Storage System (LHTESS). The TES provided supplemental cooling system for thermal management of the control electronics of an autonomous vehicle (GM Bolt Electric Vehicle) retrofitted with a controller for making a self-driving car (autonomous vehicle).

- The Texas A&M team won the *2nd prize (Overall)*, and the *1st prize* (in "*Straight Line Challenge*" and "*Object Detection & Avoidance Challenge*" categories).
- SAE International. (2018, 2 June). "*SAE International and General Motors Announce Winners of Year One of the AutoDrive Challenge Competition*."