



MEET AN MSPE MEMBER:

Tim Johnson, PE

Cap'n Tim Johnson, PE is Principal of Captains Engineering and Consulting. He served as President of MSPE (2004-2005). In May 2015, he retired from a 15-year career as Assistant Professor in the Department of Electrical Engineering and Technology at Wentworth Institute of Technology. Tim is currently pursuing a doctorate in Computer Science at Pace University, as well as a venture with his son to develop a revolutionary infrared temperature device.



Q: Why did you join MSPE?

A: I joined MSPE to meet other engineers and learn insights from their career paths.

Q: What are your goals as an engineer?

A: Since I hadn't started out to be an engineer but gravitated toward it, I wanted to be the best engineer I could be using whatever talents I had.

Q: Please describe a project that you're involved with.

A: My son David and I are currently developing an infrared temperature device that can detect and report a person's temperature *accurately to hundredths of a degree from 3 feet away*. Our goal for this exciting new product is to revolutionize the means of taking a temperature using an extremely accurate infrared sensor with a very narrow field-of-view.

Q: How did you get involved with this project?

A: I encouraged a very bright student of mine to prepare a paper for a conference in Budapest, Hungary. By dangling the carrot of a trip to Europe, we were able to complete in weeks what should have taken months. The subject of the paper was interfacing a smart sensor with a microcontroller using an I²C communication link.

Tim's Educational Background and Career Experience:

EDUCATION:

- Bachelor of Professional Studies, Empire State College, '83
- Master of Arts, Stonybrook, '93
- MSEE, NYIT, '97
- Doctor of Professional Studies, Comp Sci, Writing dissertation

CAREER EXPERIENCE:

- Wentworth Institute of Technology, Assoc. Prof., Electrical (Retired '15)
- R&D Asahi/America, 97-99
- NY Telephone, System Tech-Radio/Video (Retired '94)