

## **Howard E. Michel, Ph.D.**

## **WB2ITX**

UBTech Robotics  
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### ***Skills***

- ❖ Skilled problem solver, able to formulate and implement innovative strategies and solutions to difficult challenges, across a broad range of technologies.
  - As CEO – Guided major non-profit Board through significant change.
  - As CTO – Built a company in China – from startup to \$100 million valuation.
- ❖ Proven team builder and skilled leader, delivering optimal solutions on schedule and within budget for corporate, military, academic, and global volunteer organizations.
  - As COO – Successfully launched seven satellites in the U.S. and China.
  - As SVP – Successfully managing a \$30 million profit and loss center.
- ❖ Effective communicator, able to explain complex technology to TV and press reporters, policy and decision makers, and students.
  - Interviewed by BBC World News (78 million viewers), India's *The Economic Times*, and *The Nikkei*, the world's largest financial newspaper.
  - Led technology policy discussions with cabinet ministers in Japan, China, Taiwan and Singapore; senior government leaders in South Africa, India and Nepal; and senior leaders of international corporations in Germany, Japan, India, China, Taiwan and Silicon Valley.

### ***Relevant Professional Experience and Accomplishments***

- ❖ Senior Vice President, UBTech Robotics, a \$4 billion international robotics company based in Shenzhen, China
  - Managing a \$30 million profit and loss center, including R&D, sales, marketing, and branding for three domestic product lines and three international product lines.
- ❖ Chief Technology Officer (CTO) and co-founder, UBTech Education, an international education solutions company based in Shenzhen, China
  - Successfully aligned technical strategy and business strategy, taking company from startup to estimated \$100 million valuation.
  - Successfully created products, built engineering teams, and developed international research partnerships.

- ❖ Director of Operations (COO equivalent), Satellite Launch Director, 2<sup>nd</sup> Space Launch Squadron, U.S. Air Force – one of two U.S. military space launch organizations
  - Directed launch-base test and integration, systems engineering, and program management involving rocket, satellite, and world-wide telemetry range hardware, including pre-launch testing and launch countdown.
  - Established position, defined roles and responsibilities. Streamlined operations; cut duplication and improved reliability. Successfully took satellite launching out of research and development, and made it operational.
  - Successfully launched five satellites.

### ***IEEE Experience and Accomplishments (volunteer positions)***

Institute of Electrical and Electronics Engineers – IEEE is a volunteer led 501(c)3 association advancing technology for the benefit of humanity.

- ❖ 2015 IEEE President & CEO
  - Worked synergistically with the Executive Director to manage a \$400 million annual international business that operates over 1800 conferences, maintains 1300 active standards, 180 top-cited publications, and is organized into 46 technical societies and councils, 334 local sections, and 430,000 members worldwide.
  - Guided the IEEE Board through a significant and controversial change to IEEE policy on the use of patents in IEEE standards such as 802.11, the basis for Wi-Fi.
  - Envisioned and led the IEEE Board in developing “IEEE in 2030” goals – long range goals in organization, products, technical communities, and public imperatives.
  - Created a model for industry outreach – bringing IEEE and the professional workforce together to create new products and services.
  - Expanded IEEE’s global footprint – initiated first office in Europe and opened second office in China.
- ❖ 2011-2012 IEEE Vice-President Member and Geographic Activities, Chair of the Member and Geographic Activities Board
  - Set policy and provided oversight for IEEE activities globally, successfully growing membership outside the U.S.
  - Set direction to revitalize and reinvent local sections such that they provide focus on individual members and their unique needs.
  - Established Metropolitan Area Workshops, a new program for IEEE, providing value to working engineers.
  - Managed \$66 million annual dues budget, and several thousand volunteers worldwide.

### ***Work Experience***

- ❖ Private-sector Positions
  - Senior Vice President UBTech Robotics (1/18 – present)
  - Chief Technology Officer UBTech Education (11/16 – 12/17)
- ❖ Military Positions
  - Consultant, Navy Underwater Warfare Center (5/04 –11/16)

- Senior Engineering Manager, Air Force Systems/Material Command (6/91 – 3/94)
- Senior U.S. Government Technical Representative in China (Periodic, 12/89 – 8/92)
- Satellite Launch Director, Air Force Systems/Space Command (12/86 – 6/91)
- Engineer, Engineering Manager, Air Force Systems Command (7/81 – 12/86)
- Pilot, Air Force (10/76 – 7/81)

❖ University Positions

- Visiting Professor, Department of Electrical and Electronic Engineering Science, University of Johannesburg, Johannesburg, South Africa (5/16 – present)
- Associate Professor, Electrical and Computer Engineering Department, University of Massachusetts Dartmouth, Dartmouth MA, USA (9/05 – 5/16)
- Assistant Professor, Electrical and Computer Engineering Department, University of Massachusetts Dartmouth, Dartmouth MA, USA (9/99 – 9/05)
- Full-Time Visiting Lecturer, Computer Science Department, University of Dayton, Dayton, OH, USA (8/97 – 5/99)

### ***Board Experience***

- ❖ Institute of Electrical and Electronics Engineers – IEEE
  - Seven years in leadership roles on the IEEE Board of Directors, including President, President-Elect, Past-President, Vice-President Member and Geographic Activities, and Region Director.
- ❖ United Engineering Foundation, an \$18 million foundation supporting engineering and education.
  - Trustee, 2015-present
  - Board Vice-Chair, 2016-present

### ***Education***

- Ph.D. Computer Science and Engineering  
Wright State University, Dayton OH, 1999
- M.S. Electronic and Computer Engineering  
University of Massachusetts, Amherst MA, 1988
- M.S. Systems Management  
University of Southern California, Los Angeles CA, 1981
- B.S. Electronic Engineering (cum laude)  
New Jersey Institute of Technology, Newark NJ, 1975

### ***Miscellaneous***

- Extra Class amateur radio license WB2ITX (licensed 50 years)