JAMES HSI-JEN YEH, PH.D., MBA
http://www.linkedin.com/in/drjyeh

PROFESSIONAL SUMMARY

Faith-driven academic leader with over 10 years of experience in higher education administration, faculty development, strategic planning, and student success initiatives. Proven record integrating Christian faith with academic excellence, fostering inclusive environments, advancing academic programs, securing external grants, and leading multidisciplinary teams. More than 20 years of research and industry experience in semiconductors, cybersecurity, and wireless.

PROFESSIONAL EXPERIENCE

Dean, College of Business and Technology
Seattle Pacific University – Seattle, WA **09/2025 - present**
- Lead the College of Business and Technology, overseeing eight departments in two divisions

Associate Dean, School of Engineering
Massachusetts Maritime Academy - Buzzards Bay, MA **07/2024 – 10/2025**
- Head of the newly formed School of Engineering, overseeing three engineering departments
- Won $310k Mass Clean Energy Center grant; submitted $400k proposal to Mass Life Science Center
- Initiated Environmental Engineering and Engineering Technology programs
- Serve on the Massachusetts State University Joint Labor/Management Equity Committee
- Created workforce development programs and experiential learning abroad

Chair and Associate Professor, Engineering and Computer Science
Azusa Pacific University - Azusa, CA **08/2016 - 07/2024**
- Achieved ABET Accreditation for Engineering Program
- Created new Mechanical Engineering and Electrical Engineering Concentrations
- Won $650k NSF S-STEM Grant for First-Gen, Pell-Eligible Students, and $200k WM Keck Grant for IoT Research
- Built 4+1 BS Computer Science + MS Data Science and Engineering + Biotechnology Programs
- Created Impact of Social Media and AI, Computer Art, Ethics in Computing and Engineering, IoT courses

Embedded Software Consultant
Microwave Products and Technology (MPT) Inc. - Murrieta, CA **05/2018 - 08/2020**
- Developed $2M phased-array antenna, synthetic aperture radar, and drone vibration mitigation

Lecturer of Electrical and Computer Engineering, Mechanical Engineering, and Engineering Technology
California Polytechnic University Pomona - Pomona, CA **08/2015 - 08/2016**

Director of Business Development and Project Management
Synaptics, Inc. (previously Validity Sensors, Inc.) – San Jose, CA **04/2013 - 07/2014**
- Led R&D of fingerprint cybersecurity system for smartphones
- Won mobile phone design with Samsung and HTC, and managed through market launch
- Managed PC designs for Lenovo and Dell, and reference designs with Intel and Qualcomm

Sr. Director of Marketing and Taiwan Country Manager
Apple Inc. (previously AuthenTec, Inc.) - Melbourne, FL **01/2005 - 11/2012**
- Led the Materials R&D team in developing durability coatings
- Created successful high-margin business in semiconductor modules
- Won major mobile phone designs, including Samsung, Microsoft, LG, Polycom, Sony-Ericsson, HTC, and Fujitsu

Telecom Consultant
Self-Employed - Taipei, Taiwan **03/2003 - 09/2004**
- China Development Industrial Bank – Evaluated and invested in early-stage telecom companies
- ECI Telecom – Sold and deployed
- Nokia – Sold and deployed ADSL, Firewall Security Appliances, High-Performance Edge Router

Senior Investment Manager
WK Consulting, Inc. - Taipei, Taiwan & Santa Clara, CA **06/2002 - 03/2003**
- Evaluated, invested, and exited early-stage networking companies

Director of Business Development and Associate Marketing Director
Tecom Co., Ltd - Taipei, Taiwan **08/1998 - 05/2002**
- Headed the Networking Carrier Business Unit
- Successfully won and deployed a USD$33 M DSL network
- Designed and marketed ADSL modems, VoIP cordless, and wireless ISDN transceivers

Principal Investigator - Member of Technical Staff
AT&T Bell Laboratories - Murray Hills, NJ **06/1994 - 07/1998**
- Designed dual-band high-frequency RF low-noise amplifier [Patent]
- Developed dynamic bandwidth allocation with price-on-demand [Patent]
- Developed near-field aperture laser for advanced optical disk drives

Research Assistant
Electronic Research Laboratories - Berkeley, CA **08/1989 - 06/1994**
- Invented fluidic self-assembly for the integration of GaAs devices on Si [Patent]
- Constructed sealed microcavities for gaseous micro lamps on Silicon

EDUCATION

Ph.D., Electrical Engineering and Computer Science, University of California, Berkley, 05/1994
MBA, Finance & Marketing, Columbia University, 05/1997
M.S., Electrical Engineering and Computer Science, University of California, Berkley, 05/1991
B.S., Electrical Engineering, California Institute of Technology, 06/1989

FAITH AND SERVICE

Worship Team Member, Faith Community Church (Free Methodist), 08/2024 - present
Vice Chair, Evangelical Formosan Church, Council Board, 01/2017 – 08/2024
Chairperson, Walnut Valley USD Citizen Bond Oversight Committee, 05/2021 - 05/2024
Convener, East Valley Children's Choir, 01/2018 - 07/2024
Board Member, K12 Foothill Consortium, Engineering Advisory Board, 06/2020 - 08/2021

OTHERS

LANGUAGES

Fluent in English, Mandarin Chinese, and Taiwanese
Conversational Spanish, Japanese, and Korean

AWARDS AND HONORS

- Caltech FLoW Business Competition, Promising Idea Award, 05/2012
- Eta Kappa Nu (Engineering) and Beta Gamma Sigma (Management) Honor Societies

PATENTS

5,545,291	Method for Fabricating Self-Assembling Microstructures
5,625,617	Near-Field Optical Apparatus with a Laser Having Non-Uniform Emission Face
5,783,856	Method for Fabricating Self-Assembling Microstructures
5,824,186	Method and Apparatus for Fabricating Self-Assembling Microstructures
5,904,545	Apparatus for Fabricating Self-Assembling Microstructures
5,955,814	Single-Stage Dual-Band Low-Noise Amplifier for use in a Wireless Communication System Receiver
6,690,929	Dynamic quality-of-service and pricing in communication system

PUBLICATIONS

1. A Lee, M Lee, D Yeh, and HJJ Yeh, "Sensor-Integrated Chairs for Lower Body Strength and Endurance Assessment," Sensors 24(3), 788, 2024.

2. A Lee, M Lee, and HJJ Yeh, "An IoT-Based Automatic and Continuous Urine Measurement System," BioMedInformatics 3(2), 446-454, 2023.
3. W. Lee and H. -J. J. Yeh, "Real-Time Monitoring of Urine Output with Internet-of-Things Connected Foley Catheters," 2022 International Conference on Computational Science and Computational Intelligence (CSCI), Dec 14, 2022, Las Vegas, NV.
4. H. K. Dy and H. -J. J. Yeh, "Crowd-Funded Earthquake Early-Warning System," *2022 International Conference on Computational Science and Computational Intelligence (CSCI)*, Dec 14, 2022, Las Vegas, NV.
5. W. Cook, H. Felberg, J. Palos, N. and Yeh H, "IoT Natural Gas Pipeline Monitoring System," Abstract, 2nd International Conference on Innovative Intelligent Industrial Production and Logistics, Oct 2021.
6. Hsi-Jen James Yeh, Rick Sturdivant, Mark Stambaugh, and Alex Zahnd, "Prioritized Load Control System for Pico-Hydroelectric Power in the Nepal Himalayas," 2020 IEEE Green Technologies Conference (GreenTech 2020), Apr 1-3, 2020, Oklahoma City, OK.
7. **[SESSION CHAIR]** Hsi-Jen James Yeh, Craig Bartholio, Elyse Shackleton, Levi Costello, Matthew Perera, Kyle Yeh, and Chelsea Yeh, "Environmentally Embedded Internet-of-Things for Secondary and Higher Education," The 3rd International Conference on Information and Computer Technologies (ICICT 2020), Mar 9-12, 2020, San Jose, USA
8. Hsi-Jen James Yeh, Mark Stambaugh, Alex Zahnd, and Kyle Yeh, "IoT Sensing and Control Network for Pico-Hydroelectric in the Nepal Himalayas," Proceedings of the 6th Annual Conf. on Computational Science & Computational Intelligence (CSCI'19), Symposium on Internet of Things & Internet of Everything (CSCI-ISOT), Dec 05-07, 2019, Las Vegas, Nevada
9. Alex Zahnd, Mark Stambaugh, Derek Jackson, Michael Lawley, James Yeh, and Micah Moyer, "Modular Pico-Hydro Power System for Remote Himalayan Villages," Proceedings of the Solar World Congress, Nov 4-7, 2019, Santiago, Chile
10. **[BEST PAPER]** Hsi-Jen James Yeh, Rick Sturdivant, Mark Stambaugh and Alex Zahnd, "Programmable Turbine Failsafe System for Pico-Hydroelectric Power in the Nepal Himalayas," Proceedings of the IEEE Green Energy and Smart Systems Conference (IGESSC 2019), Nov 4-5, 2019, Long Beach, CA
11. Rick L. Sturdivant, James Yeh, Mark Stambaugh, Alex Zahnd, Nicholas Villareal, Charles K. Vetter, Justin D. Rohweller, Jacob F. Martinez, Jordan M. Ishii, Ryan A. Brown, Aaron M. Arkie, "IoT enabled pico-hydroelectric power with satellite backhaul for remote Himalayan villages," Proceedings of the IEEE Radio and Wireless Conference, Topical Workshop On The Internet of Space, Jan 14-17, 2018, Anaheim, CA.
12. R. Sturdivant, J. Yeh, M. Stambaugh, A. Zahnd, "Improving the utilization factor for islanded renewable energy systems," in Proceedings of the Solar World Congress, Abu Dhabi, UAE, Oct 29-Nov 2, 2017.
13. R. Sturdivant, J. Yeh, M. Stambaugh, A. Zahnd, "Sustainability as a characteristic of renewable energy systems in remote Himalayan villages," in Proceedings of the Solar World Congress, Abu Dhabi, UAE, Oct 29-Nov 2, 2017.
14. R. Sturdivant, J. Yeh, M. Stambaugh, A. Zahnd, E. K. P. Chong, "Pico-hydro electric power in the Nepal Himalayas," in Proceedings of the 9th IEEE Annual Green Technologies Conference (IEEE GreenTech 2017), Denver, Colorado, March 29-31, 2017
15. Zahnd, A., Stambaugh, M., Jackson, D., Gross, T., Hugi, C., Sturdivant, R., Yeh, J., & Sharma, S. (2017, February). Modular pico-hydro power system for remote Himalayan villages. Presentation at the 16th World Renewable Energy Congress XVI, Western Australia, AU
16. Afshin Partovi, David Peale, Matthias Wuttig, Cherry A. Murray, George Zydzik, Leslie Hopkins, Kirk Baldwin, William S. Hobson, James Wynn, John Lopata, Lisa Dhar, Rob Chichester, and James H-J Yeh, "High-power laser light source for near-field optics and its application to high-density optical data storage," Applied Physics Lett., Vol. 75, p. 1515 (1999)
17. L. Stacey, S. Sivagnansundaram, P. Brown, I. Kriaras, H.-J. Yeh, T. Aytur, "Always in Touch - GSM-WAVE," GSM World Congress Demonstration, February 1998.
18. Partovi, D. Peale, C.A. Murray, G. Zydzik, L. Hopkins, J. Yeh, M. Wuttig, R. Chichester, L. Dhar, D. Vakshoori, W.S. Hobson, J. Wynn, J. Lopata, "Ultra High Density Near-Field Optical Storage," CLEO, OSA Technical Digest Series, Vol. 9, p. 195 (1996)
19. Ashish K. Verma, Mark A. Hadley, Hsi-Jen J. Yeh, and J. S.Smith, "Fluidic Self-Assembly of Silicon Microstructures," Proceedings of the 45th Electronic Components and Technology Conference (IEEE Press, New York, NY, 1995) pp. 1263-1268.
20. Hsi-Jen J. Yeh and John S. Smith, "Fluidic Self-Assembly for the Integration of GaAs Light-Emitting Diodes on Si Substrates," IEEE Photonics Technology Letters 6(1994) 706-708.
21. Hsi-Jen J. Yeh and John S. Smith, "New fabrication technique for the integration of large area optoelectronic display panels," Conference on Lasers and Electro-Optics Technical Digest 8(1994) CWC2 191-192.
22. J. K. Tu, H. J. Yeh, and J. S. Smith, "InGaAs and GaAs p-i-n photodetectors integrated onto a Si substrate by fluidic self-assembly," Conference on Lasers and Electro-Optics Technical Digest 8(1994) CThI39 342-343.

23. Hsi-Jen J. Yeh and John S. Smith, "Gallium arsenide on silicon integration by fluidic self-assembly," Conference on Lasers and Electro-Optics Technical Digest 8(1994) CFB2 391-392.
24. Hsi-Jen J. Yeh and John S. Smith, "Integration of GaAs vertical-cavity surface-emitting laser on Si by substrate removal," Appl. Phys. Lett. 64(12) 1466 (21 Mar 1994)
25. H-J.J. Yeh and J.S. Smith, "Fluidic self-assembly of microstructures and its application to the integration of GaAs on Si," Proc. IEEE Workshop on Micro Electro Mechanical Systems, Oiso, Japan, Jan. 25-28 (1994) Pp 279-284
26. C. H. Mastrangelo, J. H.-J. Yeh, and R. S. Muller, "Electrical and Optical Characteristics of Vacuum-Sealed Polysilicon Microlamps," IEEE Transactions on Electron Devices, Vol. 39, No. 6, pp. 1363-1375, June 1992.
27. Hsi-Jen Yeh, "Applying Volume Holography to Artificial Neural Networks," California Institute of Technology Summer Undergraduate Research Fellowship (SURF) Report, 1987.