Mazin Gilbert, Ph.D., MBA, IEEE Fellow

Mobile: (973) 906-0195 • mazingilbert@gmail.com

Technical and business executive with extensive experience in technologies, software platforms and applications for artificial intelligence, multimedia processing, mobile and digital transformation, software defined networking, and big data.

INDUSTRIAL POSITIONS

AT&T **Bedminster, NJ**
Vice-President – Advanced Technology and Architecture (2016-present)

Leading AT&T's research, advanced technologies and architecture, and managing AT&T Labs – one of the top most prestigious and well-known labs in the history of science and engineering.

- Responsible for the architecture, open source ecosystem and technology roadmap for AT&T's software-defined networking transformation including Open Network Automation Platform (ONAP), and Acumos machine learning.
- Driving AT&T's technologies and solutions in areas of machine learning and AI, control loop automation, cloud virtualization, OSS/BSS transformation, targeted advertising, and networking and operational efficiencies.
- Deploying software platforms in machine learning and statistics, software defined network, data visualization, and edge cloud.
- AT&T's media representative for AI and open source ecosystem (45+ interviews in 2017).
- Engaging in 64 university relationships with over 100 collaborative projects.
- Managing an outstanding technical and engineering team of 400+ employees.
- Responsible for > $100 Mil budget.
- Chairing AT&T's committee for Fellows, and Science and Technology Awards.

AT&T **Bedminster, NJ**
Assistant Vice-President – Intelligent Services and Platforms (2012-2016)

Set, manage and execute on broad technology programs (research, platforms, applications, software) in intelligent systems technologies including software defined network, video and multimedia processing, big data analytics and speech processing, and machine learning.

AT&T Labs **Florham Park, NJ**
Executive Director of Technical Research – Speech & Multimedia Processing (2006-2012)

Managed R&D programs in areas of speech recognition and natural language processing, media processing, biometrics, and machine learning.

AT&T Research **Florham Park, NJ**
Director– Natural Language and Dialog (1999-2006)

Managed research programs in areas of natural language understanding and dialog, language translation and multimodal interfaces.

Bell Labs **Murray Hill, NJ**
Member of Technical Staff (1993-1999)

Conducted research in areas of speech recognition and natural language processing, mobile applications, signal processing, machine learning, and speech analytics, and transferred software technologies and algorithms to business units

QVoice **Basking Ridge, NJ**
Co-founder and CTO (1991-1993)

Multi-factor biometrics business for desktop PCs

British Telecom & BBC, United Kingdom (1988-1989) **London, UK**

Summer internships on audio processing, and printer circuit board design.

EDUCATION

WHARTON BUSINESS SCHOOL, UNIVERSITY OF PENNSYLVANIA   **Philadelphia, PA**
The Wharton MBA Program for Executives
MBA Finance (May 2009) – Top 10% of class

ELECTRICAL ENGINEERING SCHOOL, THE UNIVERSITY OF LIVERPOOL   **Liverpool, UK**
Ph.D Electrical Engineering (July 1991) – Deep learning for speech processing
B.Eng. Electrical Engineering & Electronic with First Class Honors (July 1987) – Ranked *First* in engineering school

TEACHING POSITIONS

Princeton University (2004-2005)   **Princeton, NJ**
Teaching professor at the Princeton University School of Computer Science.

Rutgers University (1995-1996)   **Newark, NJ**
Teaching professor at the Rutgers Graduate School of Management.
Rutgers University CAIP Center (1991-1992)   **New Brunswick, NJ**
Research professor in Multimedia technologies and systems.

TECHNICAL ACCOMPLISHMENTS

Awards/Scholarships
- Chat Customer Care Team Award (2015)
- GMADP (2015)
- AT&T Watson Award (2015)
- Numerous national and international awards for research innovations and products (2007-2014)
- AT&T Marketing Award (2011)
- AT&T 100 patent award (2014)
- IEEE Fellow (2012)
- AT&T Science and Technology Award (2006).
- The Speech Technology Magazine Innovative Award (2003, 2010).
- Nine academic awards (1985-1992).

Software and Platforms
- Technical chair of the Linux Foundation Open Network Automation Platform (ONAP)
- Working experience with C, Python, Matlab, SAS and R, Big data platforms and open source software on data analytics, software defined networking and machine learning, and agile development.
- Deployed numerous software platforms for big data analytics, customer care, communication services, speech and language systems, and machine learning.

Scientific Publications/Patents
- >100 papers in national and international journals & conferences in areas of human-machine communication, machine learning, and big data.
- Editor of the book "Artificial Intelligence for Autonomous Networks," Chapman & Hall Publication, to be published August 2018.
- Author contributor of the book "Building the Network of the Future: Getting Smarter, Faster, and More Flexible with a Software Centric Approach," CRC Press, 2017.
- Author of the book "Artificial Neural Networks for Speech Analysis/Synthesis," *Chapman & Hall Publication*, June 1994.
- >160 US patents granted and 25 submitted.

PROFESSIONAL ACCOMPLISHMENTS

New Businesses Created
- President and founder of M&S Property Enterprises, LLC, and Bridgewater Professional Group, LLC (2010)
- Co-founder of BridgePointe Family Dentistry, LLC and BridgePointe Dental, LLC (2002)

Institute of Electrical and Electronic Engineering (IEEE)
- Member of the IEEE Signal Processing Society Industrial Committee (2014-present)
- Fellow of the Institute of Electrical and Electronics Engineers (2012).
- Director of the IEEE Signal Processing Society Industrial Committee (2012-2014)
- Member of the IEEE Signal Processing Magazine Editorial Board (2009-2011).
- Founder and Chair of Show &Tell at IEEE International Conference on Acoustics, Speech and Signal Processing (2008, 2014).
- General Chair of the IEEE Speech and Language Technical Committee (2004-2007).
- Founder and Chair of the IEEE/ACL Workshop on Spoken Language Technology (2006).
- Co-editor of special issues in the IEEE Signal processing Magazine and the Speech and Audio Processing Journal (2005-2010)
- Member of the IEEE Speech Technical Committee (2000-2004).
- Finance chair of the IEEE workshop on speech synthesis (2002)
- General Chair of the IEEE workshop on Automatic Speech Recognition and Understanding (1999).
- Associate Editor for the IEEE Transaction on Speech and Audio Processing (1995-1999).

Other Professional Positions
- Board Member of the International Computer Science Institute- ICSI (2012-present)
- Board Member of OLM Advisory Council (2011-present)
- Member of the ISCA Advisory Council (2006-2013).
- Chair of the CAIP industrial board at Rutgers University (2003-2006).
- National speaker for the Dental Community on the "Paperless Practice."

Selected Keynotes/Invited Talks
- "AI Revolution", AI Summit, NY, 2017.
- "Technology 2020+," Centerpointe Energy, Texas, 2015
- "The Rise of Intelligent Systems," IWSDS, South Korea, 2015
- "The Connected Car," OxyGEN, NJ, 2014
- "The Dawn of Intelligent Machines 2020," CyberSecurity, NY 2014

Selected Media Interviews
- "The Cybernetics Revolution", Cheddar TV, 2018.
- "AT&T announces Acumos, an open-source platform for sharing and reusing AI apps", Silicon Angle, 2017.
- "AT&T says ONAP Amsterdam release will solidify gaps, and enhance vendor interoperability, Fierce Telecom, 2017.
- "SDN + AI: A powerful combo for better network", Light Reading, 2016.
- "Omni-channel customer experience," Forbes, 2015.
- "AT&T's Watson Answers the Call," Speech Technology Magazine, 2014

Selected Journals
- Gilbert, M., "**Mobility – A Game Changer for Speech**," Speech Technology ASR news, 2010.
- Gilbert, M., Feng, J., "**Speech and Language Processing Over the World Wide Web**," Signal Processing Magazine, 2008.
- Gilbert, M., Wilpon, J., Stern, B., and Di Fabbrizio, G., "**Intelligent Virtual Agents for Contact Center Automation,"** *IEEE Signal Processing Magazine*, 2005.
- Schapire, R., Rochery, M., Gilbert, M., and Gupta, N., "**Incorporating Prior Knowledge into Boosting for Text and Speech Classification**," *IEEE Transaction on Speech & Audio Processing,* 2005.
- Douglas, S., Agarwal, D., Alonso, T., Bell, R., Gilbert, M., Swayne, D., and Volinsky, C., **"Mining Customer Care Dialogs for Daily News,"** Special issue on Data Mining, *IEEE Transaction on Speech & Audio Processing*, 2005.

Selected Technology Tutorials
- Gilbert, M., and Acero, A., "Mobile Voice Search," Interspeech 2010.
- Gilbert, M. "Speech and Language Processing Over the World Wide Web," ICSLP 2008.
- Gilbert, M. "The High-Tech Paperless Practice," NJDA 2006.
- Gilbert, M., and Pieraccini, R. "Visions, Technology and Business of Conversational Machines," Interspeech 2005.
- Gilbert, M., and Acero, A., "Spoken and Multimodal Dialog Technology and Systems," IEEE ICASSP 2002.

References
Confidential references are available upon request.