

MIRA BARAKET, Ph.D.

Chief Technology Officer

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Chief Technology Officer and technology executive with 15+ years of leadership experience building and scaling deep-tech organizations across Engineering, Research & Development, Product Development, and Applications Engineering. Proven ability to translate breakthrough science into commercially deployable products through technology strategy, engineering execution, business strategy, digital transformation, IP development, strategic partnerships and investor technical due diligence.

EXECUTIVE HIGHLIGHTS

- Leads technology strategy and execution across Engineering, R&D, Product Development and Applications Engineering.
- Combines deep technical expertise with executive education from Harvard Business School Online in business strategy, management and digital transformation.
- Experienced in technology roadmaps, IP development, manufacturing scale-up, customer applications and strategic partnerships.
- Supported venture financing and technical diligence; previously contributed to raising and managing more than USD 20M.

CORE LEADERSHIP COMPETENCIES

Corporate Technology Strategy | Engineering Leadership | R&D Leadership | Product Development | Applications Engineering | Business Strategy | Innovation Programs | Digital Transformation | Technology Commercialization | Semiconductor Technologies | Advanced Manufacturing | IP Strategy | Manufacturing Scale-up | Strategic Partnerships | Technical Due Diligence | Organizational Scaling

PROFESSIONAL EXPERIENCE

ATLANT 3D

Chief Technology Officer | 2025 - Present | Copenhagen, Denmark

Executive responsible for overall technology strategy and execution across Engineering, R&D, Product Development, Applications Engineering, IP and product innovation.

- Define and execute ATLANT 3D's long-term technology strategy aligned with business and commercialization objectives.
- Lead multidisciplinary engineering and scientific organizations across platform development, applications and product innovation.
- Drive technology transfer from research into commercial products and customer-facing applications.
- Oversee technology roadmap, platform architecture, IP strategy and investor technical diligence.

ATLANT 3D

Vice President, Technology | 2024 - 2025 | Copenhagen, Denmark

Promoted after one year to expand leadership responsibilities beyond R&D into Engineering, Product Development and Applications Engineering.

- Expanded the technology organization to support rapid company growth and commercialization priorities.
- Led cross-functional engineering, product development, R&D and applications programs.
- Implemented structured engineering and validation processes supporting product readiness and customer adoption.
- Strengthened collaboration between technical, commercial and executive teams.

ATLANT 3D

Head of Technology R&D | 2023 - 2024 | Copenhagen, Denmark

Joined ATLANT 3D to establish and lead the company's R&D organization.

- Built R&D capabilities, laboratory workflows and scientific development processes.
- Developed the technology roadmap and research strategy supporting next-generation platform development.
- Led core technology development, IP generation and transition of research programs into engineering execution.

PROFESSIONAL EXPERIENCE - CONTINUED

General Graphene Corporation

Director of Science | 2017 - 2023 | Knoxville, Tennessee

Directed research strategy and technology development for an industrial-scale manufacturer of CVD graphene.

- Contributed to raising and managing more than USD 20 million in funding for technology development and growth initiatives.
- Designed laboratory infrastructure, production equipment and manufacturing processes supporting industrial-scale production.
- Led multidisciplinary teams of PhD scientists and engineers; mentored technical staff and aligned research execution with production goals.
- Served as liaison between researchers, executives and operational leadership to establish technical initiatives and development strategies.

Earlier Research Leadership

Research Scientist | 2008 - 2015 | United States and France

Held research leadership roles at the U.S. Naval Research Laboratory, French Atomic Energy Commission (CEA), and Néel Institute within the European Graphene Flagship Program.

- Advanced graphene, semiconductor, superconducting device and nanomaterials technologies for electronic and biosensing applications.
- Established collaborations with IBM, Applied Materials, Thermo Fisher Scientific, Sandia National Laboratories, Virginia Tech, University of Maryland, Columbia University and LMD Paris.
- Authored 20+ peer-reviewed publications with more than 500 citations and presented research at international conferences.

EDUCATION & EXECUTIVE DEVELOPMENT

- Harvard Business School Online - Executive Program in Digital Transformation, 2024
- Harvard Business School Online - Business Strategy, 2023
- Harvard Business School Online - Management Essentials, 2022
- Ph.D. in Materials Science & Engineering

EXECUTIVE IMPACT

- Executive technology leader with direct responsibility for scaling deep-tech functions across engineering, product, applications and R&D.
- Demonstrated ability to connect scientific innovation with commercial strategy, customer applications and investor diligence.
- Experience operating across venture-backed companies, government laboratories, academic institutions and strategic industrial partners.
- Track record leading multidisciplinary teams, building technical infrastructure, establishing processes and advancing technologies toward commercial deployment.