

Our Team



PETER LYONS is CEO of PolyPico Technologies Ltd. Peter is responsible for business development and the day-to-day running of the business. He has worked in several industries and management positions including: Business Manager for Power Distribution companies in Australia and Canada; Associate in Morgan Stanley, AWAS, etc. Peter holds an honours degree in Economics and further qualifications in accounting, computing and internal audit.

Dr GABRIEL LEEN is a founder and the CTO of PolyPico Technologies Ltd. and co-inventor of the PolyPico Technology. He has a broad range of experience including: development of standards for spacecraft on-board systems; fibre-optic sensors, formal mathematical verification; fluid-dynamics, robotics; and the design of commercial automotive electronic systems. He has over 100 publications and a book published, over a dozen patent applications, and over 1000 citations to his work.

NIKOLAY PAVLOV is a physicist with over 20 years of experience in R&D related to broad range of electronic systems and sensors including optical, laser, electromagnetic, liquid dispensing systems and related technologies. He is also author of several patents and publications. Nikolay holds M.S. and B.S. degrees.

JOE FAHY is a Lead Software Engineer for PolyPico Technologies Ltd. with several years' experience across a broad range of development technologies e.g. full stack developer with a focus on ASP .NET; regular use of Java, JSP, C#, jQuery, HTML5, CSS3, etc. Joe has an Honors Degree in Software Development. He has vast personal experience with 3D printing and is responsible for the development of PolyPico system interfaces and application software to operate hardware.

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Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications.

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PolyPico Technologies Ltd

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Who we are

PolyPico Technologies Ltd is a provider of liquid dispensing technology and based in Cork, Ireland. Founded in 2012, the privately owned company designs and manufactures, fluid dispensing solutions for both Life Science and Industrial applications. PolyPico's core platform technology is based on a patented innovation in non-contact ultra low volume acoustic dispensing technology. This platform technology brings new features, benefits and possibilities to applications where precision fluid dispensing is required.

We are focused on revolutionising the way bio-materials and other liquids are printed and dispensed. Our versatile technology combats challenges such as: cross-contamination; dispenser clogging; wastage; and system complexity, through the use of simple disposable fluid cartridges. PolyPico has worked with several of the worlds largest and smallest pharmaceutical companies, industrial companies and research organisations.

Our multidisciplinary team have a broad range of expertise in areas such as: micro-fluidics; electronics; software development; mechanical engineering; physics; business development and bio-technology. We offer customised solution and services for the Life Sciences and Industrial applications and invite you to contact PolyPico and learn how these innovations can help your company.



Our product & services



PolyPico Technologies Ltd. provides products and services to a global market, which include:

- Ultra-high precision fluid dispensing equipment e.g. <1% CV
- Ultra-low volume fluid dispensing technology down to the picolitre volume range
- Robotic systems with +/- 6um positional accuracy on fluid drop placement
- Drop-watch imaging systems
- Custom dispensing systems for high viscosity reagents
- Bespoke fluid dispensing systems

Application examples include: dispensing of proteins/antibodies to make microarrays and bio-chips; dispensing living cells for tissue manufacture or other purposes; dispensing of organic/inorganic suspensions/solvents; dispensing of nano-materials; coating surfaces / medical devices; dispensing: DNA; reagents; bacteria; micro-crystals; conductive inks; low viscosity adhesives; radio-active isotopes; monomers/polymers; pharmaceuticals; filling micro-needles and TEM grids, etc.

