

## **Alexander Kamyshnikov, short professional biography**

Alexander Kamyshnikov graduated from Moscow Engineering and Physics Institute (MEPhI) majored in Cybernetics and Technological Process Automation. Alexander started his first firm TeleForm ([hyperlink to Teleformis.ru](http://teleformis.ru)), which achieved its greatest success in creating automated systems for the largest Savings Bank in Russia (Sberbank). In 1995 he left the company, selling his shares and focused on establishing the Banking Production Center (BPC), of which he was the CEO for two years while Sberbank of Russia was its largest shareholder (60% shares). As a partner of Digital Equipment Corporation, BPC supplied both software applications (Processing system TPPI) and hardware (Alpha computers, banking peripherals, and ATMs) to Sberbank and other Russian banks. In 1997 Sberbank he founded SmartCard-Service (SCS) together with his friend and colleague cryptography specialist Vladimir Evtushenko. SCS specialized in self-service banking systems and in 1998 began developing its main product - multi-vendor ATM software TellMe, or Teller Machine Explorer, which implemented the WOSA/XFS standard. With over 110,000 installations since 2000, TellMe is the de facto standard for multi-vendor self-service software in Russia and several neighboring countries (former Soviet Union). Sberbank, for instance, acquired TellMe unlimited license and utilized the software on all of its ATMs, payment kiosks, recyclers and other self-service devices. TellMe is a unique product on the market, supporting over 70 different models of more than 15 vendors. In 2004, Alexander and Vladimir founded another company, New Grad ([hyperlink to new-grad.ru](http://new-grad.ru)). In just a short time, New Grad became the largest manufacturer of self-service devices for banks in Russia, as well as the Russian territory technology partner for the world's largest ATM manufacturers, with NCR being the largest. Prestaging orders for Russian market on the part of NCR, for example, were reaching 15,000 ATMs annually. In 2010, Alexander met the President of Quantum Systems Irina Gorbunova. Together they opened a subsidiary company in Moscow and placed an order with New Grad factory for the production of Quantum Wall terminals, subsequently winning a tender to supply of these terminals to a number of Russian banks, including Sberbank. Further development of Quantum Systems has defined a new strategic direction - robotics and artificial intelligence systems. Quantum Systems is reaching for a new level of technology, as a group of young, talented design engineers, programmers, and mathematicians, working closely with well-known Russian universities. Among several current projects, two are already being implemented: GARDY, the Adaptive Processing system; and MonRo, the Money Robot system. MonRo fundamentally changes how one approaches banking office automation, and gives the user almost unlimited possibilities for functional development without losing on existing investments. With both systems enjoying a lot of interest on the Russian market, and with implementation of both under way, MonRo is the first project to reach the US. Currently, Alexander acts as a technical consultant at Quantum Systems, splitting his time between Moscow and Miami.