dek

TECHNOLOGIES

developing
tomorrow's
technology

DEVELOPING TOMORROW'S TECHNOLOGY

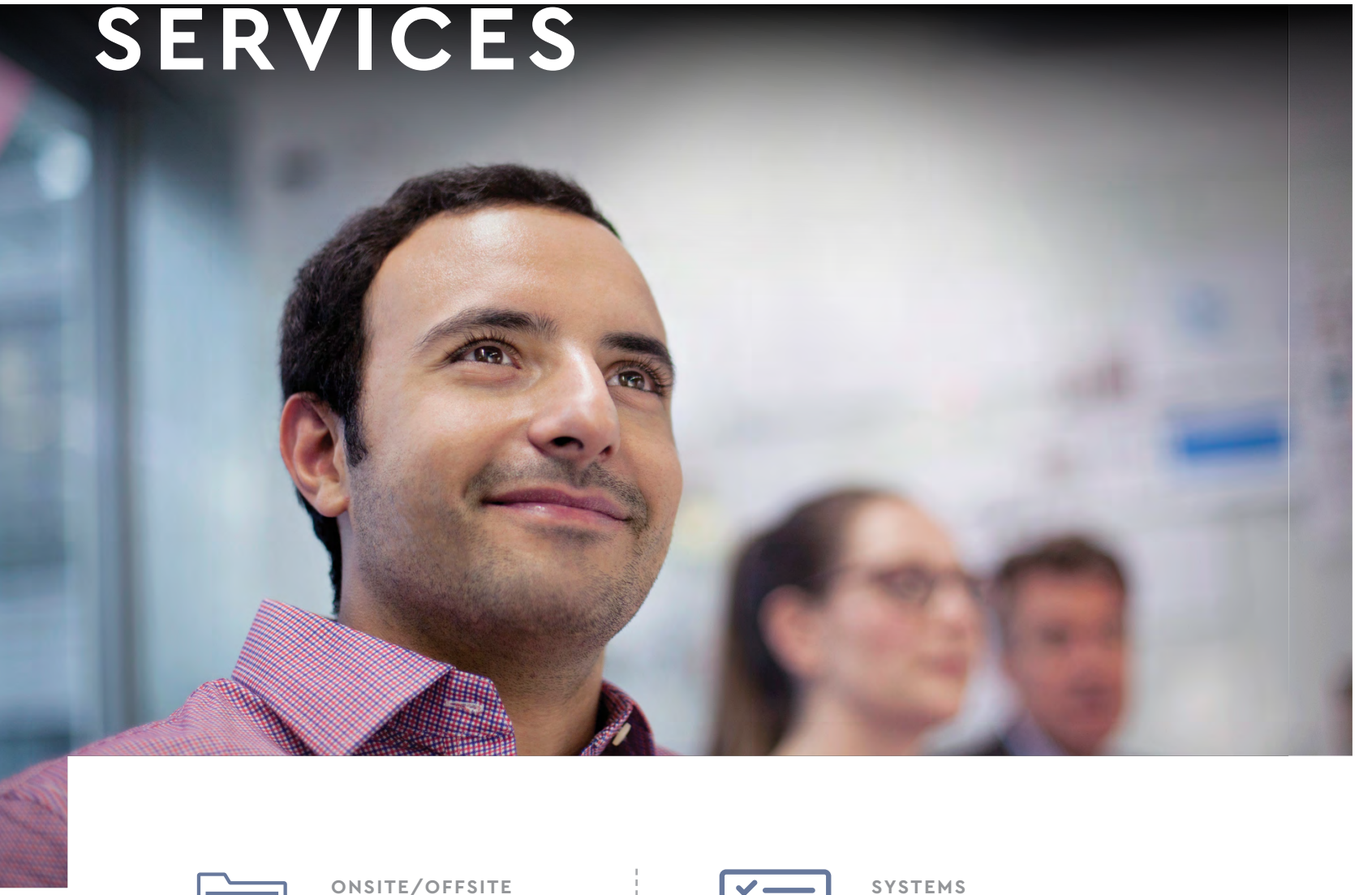
DEK Technologies is a privately owned **engineering** company established in 1999 in **Melbourne** Australia.

DEK Technologies has grown to over **400** people in Australia, Sweden, Vietnam, Italy and the USA.

DEK Technologies offers **software and electronic** engineering services across communications, digital technologies, automation, medical and defence industries.

DEK provides some of the **world's largest** technology companies with a sustained **competitive edge.**

ENGINEERING SERVICES



ONSITE/OFFSITE ASSIGNMENTS AND END-TO-END PROJECTS

SYSTEMS ENGINEERING, INTEGRATION AND TEST

SOFTWARE DEVELOPMENT

ELECTRONIC ENGINEERING

MAINTENANCE AND SUPPORT

PROJECT AND TECHNICAL MANAGEMENT

COMMERCIAL EDGE

Four global engineering offices enable DEK to be cost effective, close to customers and suppliers, with 24/7 support.

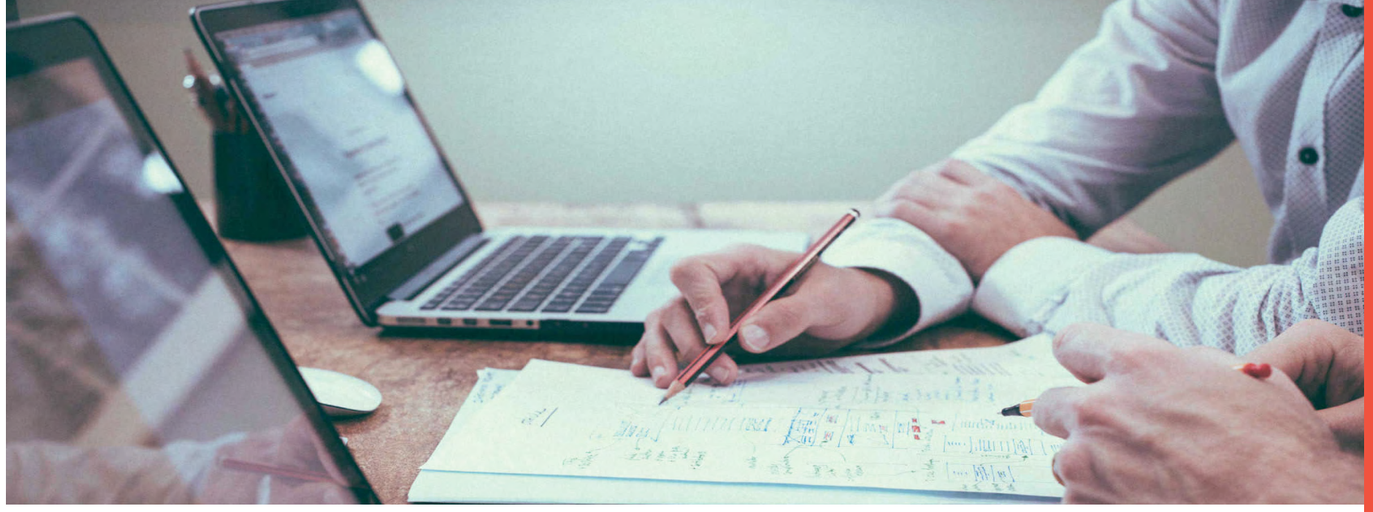
ERICSSON GLOBAL SUPPLIER OF THE YEAR 2016

DEK Technologies is a leading specialist in communications R&D.

DEK Technologies an approved supplier to world leading technology companies across industries, recognised as a partner who exceeds expectations, delivering high quality and dependable results.

CAPABILITIES

DEK Technologies has developed a wide range of capabilities and expertise to help clients take products from concept to reality.



PROJECT MANAGEMENT

- PMP accredited project managers
- Engineering management
- Scheduling and resource allocation
- Estimation and cost control
- Quality and risk management
- Procurement, subcontracts, off-shore coordination
- Project steering, audits and reporting
- Agile or PMBOK

SOFTWARE

- End-to-end design, integration, test & support
- Kernel extensions, middleware and applications
- Fully automated DevOps
- Test program management
- Existing or new code bases
- Languages: C, C++, Erlang, Java, JavaScript, Python, Ruby, Perl, TCL, TTCN, Assembly, Prolog
- Platforms: Solaris, Linux, Windows,Symbian, MAC OS, JUNOse, Android
- Technology: OpenStack, Virtualisation (KVM, VirtualBox, XEN, LXC), Database (Oracle, SQL, MySQL), Middleware, Mobile Applications

WEB AND MOBILE APPLICATION

Native iOS Platform

- Experienced with using the AppleAugmented reality Kit
- Objective C
- Swift

Native Android Platform

- Java
- Kotlin

Cross-Platform: React Native

- Javascript

EMBEDDED SOFTWARE DEVELOPMENT

- Micro-processor programming
- DSP design and programming
- Experience with multi-core processors
- OS: Linux, OSE, Symbian, VxWorks, openRTOS, OpenWrt, Android, iOS, and others
- Design for Test (manufacturing test, debug, IPMI)

SYSTEM

- Engineering lifecycle management of requirements, design, development, test and evaluation, verification and validation and certification
- High level system architectural design
- System and feasibility studies
- Technical coordination and resolutio of issues

AGILE

- Coaching and external training
- Continuous improvement of Mindset Maturity and Practices Compliance
- Focus on establishing long living, cross functional teams
- Scrum Masters, Product Owners
- Mix of co-located and geographically distributed teams
- Scrum and Kanban

HARDWARE

Circuit board design:

- High speed board design and schematic entry
- Printed circuit board layout for critical high speed designs
- Hardware partitioning
- Signal integrity and EMC analysis
- Power estimation and simulation
- Component and vendor selection

ASIC/FPGA design:

- Chip architecture and partitioning
- RTL design (verilog and vhdl)
- RTL functional and timing simulation
- Chip and system level simulation
- Behavioural modelling
- Synthesis and timing analysis
- Place and route

VERIFICATION

- Software and Hardware testing
- Comprehensive test planning and execution
- Manual and automatic test case generation
- Model Based Testing (MBT)
- Stress testing
- System and Function testing
- Test tool development
- Code coverage
- Memory leakage testing

24x7 FIELD SUPPORT

PRODUCT MAINTENANCE AND SUPPORT

- Fault report handling
- Rapid problem solving and solution delivery
- Field support including 24x7 support

PROVEN TRACK RECORD

BLADE SERVER FOR TELECOMMUNICATIONS

DEK Technologies performed a vital role in developing an ultra-high capacity Blade Server system that is used by many of the world's largest telecommunications operators. This extensive international project utilised our extensive skill in developing high availability and fault tolerant systems. The final product is a highly scalable and modular system that has achieved world-class in-service performance.

INTELLIGENT TRAFFIC SYSTEMS FOR GOVERNMENTS

DEK Technologies developed a next generation sign controller for an Australian government organisation to implement a School Zone Alert System. These next generation sign controllers communicate via 3G and satellite and allow for full remote monitoring and control.
Over 5000 units have been deployed.

5000

TRAFFIC SYSTEM UNITS DEPLOYED

E-COMMERCE PLATFORM

DEK Technologies has partnered with Wexthuset, Sweden's largest online gardening supplies company, to build an all-in-one multi-lingual, multi-regional e-commerce platform with strong SEO capabilities. We have developed a full scale web-shop that manages the complete sales cycle from supplier purchase to customer service.

EASYTOUCH GATE ACCESS CONTROL

DEK Technologies developed EasyTouch access control for airport passenger terminal gates.

EasyTouch is installed in all 200 passenger gates at the "Leonardo Da Vinci" (Fiumicino) International Airport and communicates with a central access control system.

200 EASYTOUCH SYSTEMS INSTALLED

ENERGY MONITORING AND GEOTHERMAL ENERGY

DEK Technologies developed an energy management platform for the Internet-Of-Things world. Based on cloud computing, it is a unique platform for monitoring and controlling energy usage for a range of commercial and residential applications. The key customer benefits include reduced energy operating costs and lower environmental impacts. It has been installed in many sites – including an Italian airport, schools and government buildings.

VIRTUALIZATION OF LEGACY APPLICATION

DEK Technologies moved a legacy application from dedicated hardware with Linux, to a virtualized environment also based on Linux. This enabled unbundling of the application from the hardware, which in turn generated more possible use cases for the application. The application on top of the virtualized environment has also been deployed.

MAKING A DIFFERENCE

The DEK Foundation was formed to make a positive difference to people within the communities in which we live and work.

The foundation was founded by the company's directors and staff as a response to witnessing the struggles of the poor and disadvantaged in our communities.

With a focus on children, the foundation has supported programs for the uneducated and poor by helping improve community child care facilities, providing tutorship opportunities and funding research/training for leading medical institutes.

We fund surgical procedures such as heart surgeries for children hoping to provide them with a brighter future.

We also provide donations to natural disaster victims and support multiple cancer research charities.

100% OF FUNDING GOES DIRECTLY TO THOSE IN NEED

In the spirit of integrity and transparency, we ensure that 100% of funding goes directly to those in need through active involvement across the entire process.

GET IN TOUCH

Any one of our offices are happy to help with your inquiry.

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Certified System

SAI GLOBAL

ISO 9001
Quality

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