



**ADUK** GmbH

Intelligent Electronics Engineering

## Who **We** are?

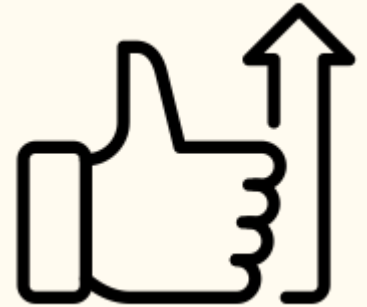
# ADUK GmbH

**ADUK GmbH** is an IT out-staffing and out-sourcing expert based in Munich, Germany, that offers remote / nearshore software, hardware and firmware developers from our R&D centres in Ukraine, Latvia, Lithuania, Poland, Hungary, Serbia and other eastern european countries.

Our clients are SMEs, startups and enterprises in Europe and USA.

# Your advantages with us

- Reduction of personnel costs by 30%
- Qualified developers on demand from 45 Euro/hour
- Access to over 300 professionals of all levels - junior, middle and senior, team-leads, architects, project managers and product owners
- Lower personnel costs (only actual working time is charged = T&M business model)
- Remote and on-site possibilities
- Minimal risk in the event of mismatch
- No personnel bottlenecks
- IP rights belong to the client
- Contracting and invoicing via ADUK GmbH
- No commission to recruiters
- Global sourcing approach
- Scalability on demand
- Short-term & long-term cooperations
- Full transparency and control



# Tools and Technologies for Software Development



- **Programming Languages:** Java, PHP, Ruby, C#, C / C++, SQL, PL/SQL, ASP .NET, Objective-C, Visual Basic
- **Technologies, Libraries and Frameworks:**
  - Java:** JEE, Spring, Spring Security, Spring Boot, JPA, Hibernate, Flyway, Swing, JSF, Apache Wicket, Velocity, GWT, JXL, Oracle Portal
  - PHP:** Codelgniter, Laravel, Symphony, Zend, Yii, WordPress, Joomla, Drupal, Magento, Prestashop
  - C#:** Microsoft Visual Studio, Telerik Framework, Entity Framework, ASP Web API, WinForms, ASP.NET MVC, Neodynamic SDK
  - .NET:** ASP.NET, Visual Basic
  - Ruby:** Rails, Capistrano, RMagick, Geokit, RSpec
  - C++:** Windows API, ActiveX, XCode, wxWidgets, STL, WinDDK, Qt Framework, Microsoft CRM
  - UI and Web Development Frameworks:** Angular, React, VueJS, GO
  - Ajax and JavaScript:** NodeJS, JQuery, ExtJS, JSON, MooTools, ASP.NET Ajax control Toolkit, Dojo, etc.
  - Web Technologies:** Bootstrap, Typescript, D3.js, XHTML, HTML5, XML, XSL, XPath, XQuery, SAX, DOM, StAX, TinyMCE, JW Player, Highcharts, amCharts, Modernizr, Oauth2 security, Omniauth security
  - Mobile:** React Native, PhoneGap, iPhone SDK, Android SDK, Xamarin, JQuery Mobile
  - BI:** Tableau, Pentaho Business Intelligence, Crystal Reports
  - Web Services:** REST API, Apache CXF, Axis, SOAP, WSDL, JAXB, JAX-WS
  - Messaging Middleware:** Apache Kafka, ActiveMQ, IBM MQ Series
- **IDE:** Eclipse, Idea, MS Visual Studio, Aptana Studio, XCode
- **Versioning Control:** Git, SVN, Rational ClearCase, Rational Synergy, MS Visual Source Safe
- **Build Tools:** Maven, Ant
- **Continuous Integration Tools:** Jenkins, Bamboo
- **Databases / Data Storages:** MySQL, PostgreSQL, Oracle, MS SQL Server, Derby, Lucene/SOLR/ElasticSearch, MongoDB, LDAP, etc.
- **Application and Web Servers:** Apache Tomcat, JBoss AS, Jetty, IBM WebSphere, Oracle Application Server, WebLogic, Windows Server IIS, Nginx
- **Cloud Computing:** AWS, Azure, Private Cloud
- **Project Planning and Management:** Jira, Confluence, MS Project, ScrumDesk
- **Software Development Methodologies:** Agile, Scrum, Kanban, Scrumban, RUP, DSDM, etc.
- **Testing Tools and Frameworks:** Selenium, Protractor, Ranorex, JMeter, JBehave, Testing Anywhere, WebUI Test Studio, TestComplete, SOAP UI, EasyMock, Mockito, jMock, WebUI test Tool, TCMS, Cucumber, ProjectLocker
- **Issue Management Tools:** JIRA, Redmine, Rally, Trac, ActiveCollab, Rational ClearQuest, Bugzilla, Bugzero, Remedy, TestLink, TestTrack, etc.
- **UX, UI and Graphic Tools:** Axure, Adobe XD, Invision, Moqups, Adobe Photoshop, Adobe Illustrator, Zeplin

# Tools and Technologies for Embedded Development



- **Microprocessors:** Intel (Edison), Qualcomm (Snapdragon 410, 800, 820), NXP (i.MX8m), MediaTek (mt7688/mt7628 – OpenWRT), ATMEL, Arduino
- **Microcontrollers:** STM32/8, 8051/x86, ARM, AVR, PIC, DSP, Freescale, esp32, Nordic, Raspberry Pi
- **Programming Languages:** C / C++ / C#, PHP, ASM, Python, R, VHDL, Verilog, OpenCV, Java, Delphi, LabView, JavaScript, HTML, CSS, Assembly, Rust, Lua, Verilog, Ada, Go
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, FreeRTOS, Green Hills, Ionic, Flutter, Framework7, SPI, I2C, Serial, GPIO, One Wire, Android, Jersey, Caffe
- **Connectivity Protocols:** Wi-Fi, ISM, GSM, GPRS, LTE, 5G, NB-IoT, Bluetooth, BLE, ZigBee, NFC, ZWave, Matter, Thread, LoraWAN, AMQP, HTTP, MQTT, CoAP, DDS, REST, LWM2M, STOMP, Google Protobufs, UDP
- **Computer Vision / Machine Vision:** OpenCV, Viso Suite, CUDA, MATLAB, Keras, SimpleCV, BoofCV, CAFFE, OpenVINO, DeepFACE, YOLO
- **Cloud:** Amazon AWS, Google AppEngine, Microsoft Azure, IBM BlueMix, PHP/MongoDB
- **Operating Systems:** iOS, Android, Mac OS, Windows, Linux, Linux Embedded
- **Embedded Development:** STM32, Cortex-M, Atmel, Keil uVision, CooCox IDE, NetBeans IDE, GCC, Altium Designer, Doxygen, Visual C#, Eclipse, IntelliJ IDEA, MS Visual Studio, LabView, Delphi, Git
- **Issue Management Tools:** JIRA, Redmine, Rally, Trac, ActiveCollab, Rational ClearQuest, Bugzilla, Bugzero, Remedy, TestLink, TestTrack, etc.
- **Project Planning and Management:** Jira, Confluence, MS Project, ScrumDesk

# Areas of Application

- Automotive
- Booking engines
- Connected Devices
- Consumer and Retail
- Data Management
- Education
- Embedded
- Energy
- Finance
- Geo localization
- Healthcare
- Industrial Automation
- Internet Services
- IoT
- Machine Learning & Machine Vision
- Mobile Applications
- Smart Home
- Search Engines
- Telecommunications
- Video & Audio Processing

# Out-Staff Team Extension

The absence of a key developer can put at risk the completion of your project. However, it can be very difficult to find a developer who has know-how knowledge and experience in your particular field and perhaps you do not need a developer on a full-time.

With our “**Team Extension**” model we provide you with developers who work under your direct management in our locations as an extension of your in-house teams. Each developer works as much as agreed as a remote / nearshore expert.

## Out-Staff Team Extension Advantages

1. Flexible model of fast scaling and descaling
2. Immediate access to qualified, experienced developers
3. Budget optimization / cost savings
4. Central roles / central knowledge remains in-house
5. Access to all major technologies
6. Maximize internal human resource
7. Extension to a Dedicated Team possible



# Out-Staff Team Extension Success Factors

- Client creates / prioritizes the EPICs and user stories and identifies the dependencies and risks.
- The internal and external team members develop a trusting and coordinated way of working / methodology.
- Clear division and definition of roles and responsibilities of ADUKs and clients' resources.
- The out-staff developers have sufficient access to clients internal tools and processes.

## Client Responsibilities

- Creation of EPICs / user stories, prioritization of the tasks and targets
- Clear specifications regarding technologies, architecture etc.
- Definition and selection of the appropriate skills and team members
- Good documentation of tasks, targets and deliverables

## ADUK Responsibilities

- Adoption of clients existing tools and processes
- In the event of a change of a developer, appropriate alternative profiles are suggested at an early stage
- Know-how transfer within the individual out-staff developers. Especially in case of a change
- Compliance with the agreed rules on documentation, etc.



# Out-Staff Dedicated Team

If you need a team, access new or specific technical expertise, you can do it faster and more effectively with our “**Dedicated Team**” model.

The dedicated team is cross-functionally staffed with all required roles by ADUK; personnel development or changes are prepared & followed up; training is proactively managed; constant capacity / throughput is ensured. It is available full time and exclusively for the client and controlled by the Product Owner / Project Manager in terms of technical and budgetary aspects.

## Out-Staff Dedicated Team Advantages

1. Immediate access to qualified, experienced developers
2. Budget optimization / cost savings
3. Access to all major technologies
4. Project management
5. The team manages itself for the most part
6. An external team builds knowhow and expertise most efficiently and can compensate well for changes in structures.



# Out-Staff Dedicated Team Success Factors

- The result / product to be delivered is described in detail and there is a common understanding of the dependencies and delivery times.
- The result / product can be delivered by the dedicated team without dependencies on other teams.
- Requirements, code quality, possible SLAs, etc. are defined in detail.
- Clear division and definition of roles and responsibilities between dedicated team and the client are agreed.
- Structured and comprehensive onboarding and know-how transfer are planned.

## Client Responsibilities

- Clear specifications of the results / scope / time to be delivered to the team
- Clear specifications regarding technologies, architecture, etc.
- Intensive onboarding of the team and the potential out-staff Product Owner / Project Manager
- Provision of all information regarding the project and possible dependencies
- Ensure measurability via KPIs and targets

## ADUK Responsibilities

- Provision of the team, staffing, onboarding, transition incl. tools
- Establishment of a good team spirit and commitment to the project
- Elaboration and prioritization of EPICS, stories, etc.
- Identification of potential risks and early, proactive development of measures
- Reporting on results, decisions, and performance
- Professional documentation of code and deliverables

# Out-Source Development

In case you do not possess your own internal resources to fulfil the development project, you can **Outsource** your entire project to us and we will provide you with world class development services.

With over 19 years of experience in all major technologies, we have executed over 100 various projects, from simple debugging, audit and problem fix to complex development.

## Out-Source Development Advantages

1. Immediate start of the development process
2. Budget optimisation / recruitment cost savings
3. Time savings on team assembly and understanding of the project
4. Access to all major technologies, development environment and equipment
5. Minimisation of the development risks
6. Post development support



# Out-Source Development Success Factors

- The result / product to be delivered is described in detail and there is a common understanding of the dependencies, budget and delivery times.
- The result / product can be delivered by ADUK without any dependencies on others.
- Requirements, code quality, possible SLAs, etc. are defined in detail.

## Client Responsibilities

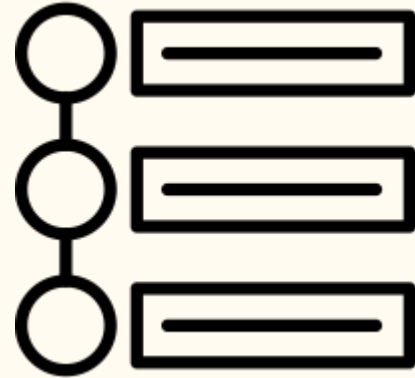
- Clear specifications of the results / scope / time to be provided
- Clear specifications regarding technologies, architecture, etc.
- Provision of all information regarding the project and possible dependencies
- Ensure measurability via KPIs and targets

## ADUK Responsibilities

- Provision of the development incl. tools, environment and technologies
- Establishment of a commitment to the project
- Elaboration and prioritization of EPICS, stories, etc.
- Identification of potential risks and early, proactive development of measures
- Reporting on delivered results, decisions, milestones and potential risks
- Professional documentation of code and deliverables

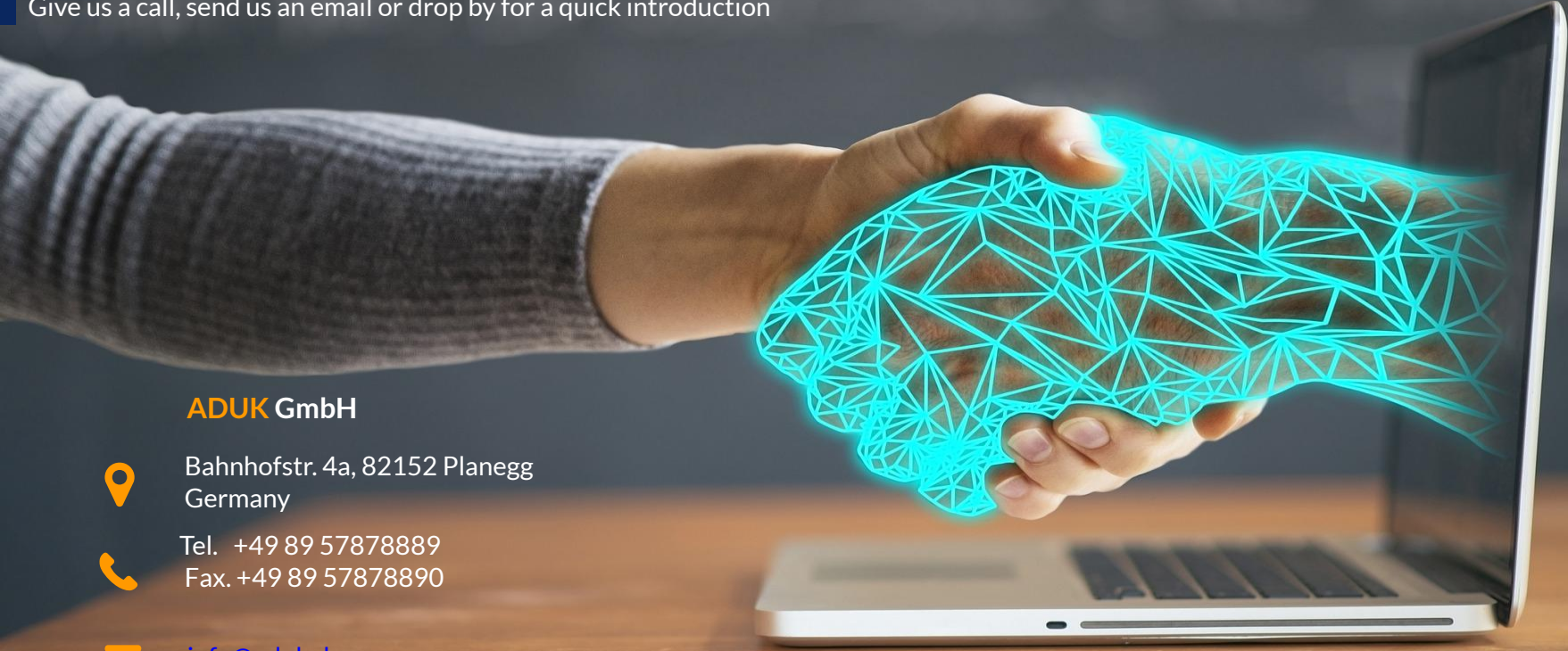
# How Does It Work?

- Step 1. Submit job / project description
- Step 2a. Receive at least 3 CVs that match your job / project description
- Step 2b. Receive a proposal for out-source development
- Step 3. Interview or technical interview / workshop with applicants
- Step 4. Make your decision and kick off the project



# Contact Us

Give us a call, send us an email or drop by for a quick introduction



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