HEITEC

CONCEPTUAL PLANNING
IMPLEMENTATION
TESTING
PROTOTYPING

ENGINEERING COMPETENCE CENTER FOR INDUSTRY - LEADING PRODUCT DEVELOPMENT
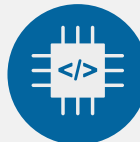
KEY BUSINESS UNITS

DIGITALIZATION AND SOFTWARE DEVELOPMENT

Data connectivity solutions, IT-OT connectivity, applied artificial intelligence, data gateway services

EMBEDDED SYSTEMS AND AUTOMATION

Embedded software concept and realization, PCB planning, schematics, prototyping, troubleshooting and refurbishing, FPGA design and verification, firmware development, architecture designs, PLC system development and programming

POWER ELECTRONICS AND ELECTROMOBILITY

Conceptual design, design verification, prototype implementation, prototype testing, module calculations, return part analysis

MEASUREMENT AND TEST SYSTEMS

End-of-line and in-line testing, 2D & 3D optical test systems, completeness, color, surface, and geometry testing, electrical test systems, board test, boundary scan, quality control and function testing, feasibility studies

TECHNOLOGY EXPERIENCE

AGILE · Jenkins · python · Linux · Qt · git · C++ · C# · A (Angular) · VECTOR Software Tool · sonarqube · ALTIUM DESIGNER · TIA V18 · DevOps · SUBVERSION · LabVIEW · ePLAN · docker · creo · JIRA · MATLAB · DS SOLIDWORKS · ISTQB Certified Tester Foundation Level · NI TestStand · LabVIEW Certified Developer

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TiSAX ®
ASSESSMENT LEVEL 3

DQS Information Security ISO/IEC 27001

DQS Quality Management ISO 9001:2015

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HEITEC

EXPERTISE IN DIGITAL TRANSFORMATION AND IOT SYSTEM UTILIZATION

DIGITALIZATION AND SOFTWARE DEVELOPMENT

INDUSTRIAL DIGITALIZATION

- Frontend architecture
- UI / UX development
- Test automation & manual testing
- Data visualization

APPLIED ARTIFICIAL INTELLIGENCE

- Natural language processing (NLP AI)
- Web-based application development
- Frontend & backend programming

IOT SOFTWARE SOLUTIONS

- Data management & aggregation
- Scrum-based development
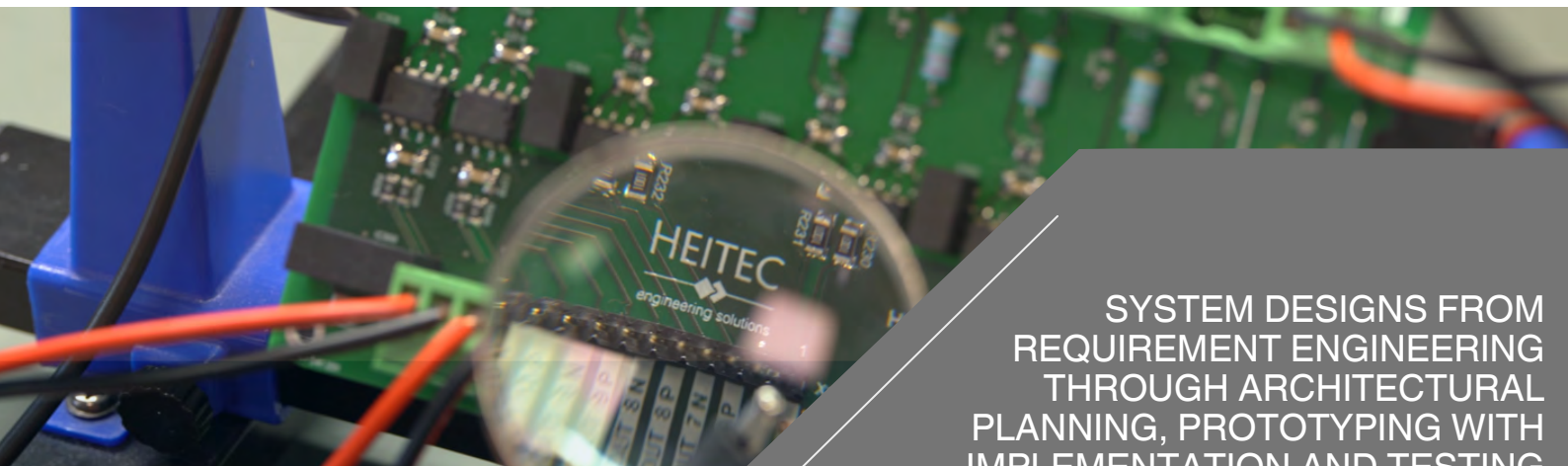- Data gateway services

DEVOPS SERVICES

- Microservice architecture
- CI, CD, Docker expertise
- Supervising DevOps delivery pipeline

TECHNOLOGY EXPERIENCE

Azure DevOps · Jira · .NET Core · node JS · Angular · mongoDB · JS · Microsoft .NET · Kubernetes · C# · React · Jenkins · Python · Linux · TS · GitHub · MATLAB · docker

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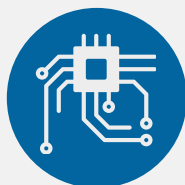
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SYSTEM DESIGNS FROM REQUIREMENT ENGINEERING THROUGH ARCHITECTURAL PLANNING, PROTOTYPING WITH IMPLEMENTATION AND TESTING

EMBEDDED SYSTEMS AND AUTOMATION

TECHNOLOGY EXPERIENCE

creo DS SOLIDWORKS

EtherNet/IP sistema C++

TIA V18 ePLAN (Python)

Azure DevOps C#

PROFIBUS PROFINET Linux

CAN BUS Yocto

Ki LTspice ALTIUM DESIGNER

EMBEDDED SYSTEMS

- Embedded software concept and realization
- Firmware & software development
- Embedded hardware planning, schematics, prototyping
- PCB troubleshooting and refurbishing
- FPGA/ASIC design and verification

AUTOMATION

- Software and hardware architecture designs for production machines and systems
- PLC software development
- Electrical design
- Data acquisition and tracking system development
- OPC interface communication
- Standardization

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HEITEC

LOW AND HIGH VOLTAGE HARDWARE LABORATORY FOR HARDWARE TEST AND DESIGN VERIFICATION

POWER ELECTRONICS AND EMOBILITY

SPECIAL EXPERTISE IN EMOBILITY PROJECTS

PROTOTYPE TESTING

- In-circuit testing
- Board and system level test
- Low and high voltage tests
- Wide temperature range
- Manual and automated test

CALCULATION

- Worst case analysis
- Check of component selection
- Lifetime calculation
- Temperature rise calculation
- ISO pulse stress analysis

RETURN PART ANALYSIS

- Fault history evaluation
- Defected component analysis
- Root cause analysis

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VISUAL 2D & 3D AND ELECTRICAL TEST SYSTEMS

MEASUREMENT AND TEST SYSTEMS

ELECTRICAL TEST SYSTEMS

- PCB assembly testing
- FCT functional testing
- ICT electrical component testing
- EOL product testing

VISUAL TEST SYSTEMS

- Completeness and quality control
- Color and surface control
- Form and geometry measurement
- Function and safety check
- Automated measuring and testing equipment
- Assembly solutions and assembly control
- Feasibility studies and plant support

LabVIEW

NI TestStand

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