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## Qbyt看 — Expertise & Offerings

Qbyt看 powers innovation at the intersection of embedded systems, wireless telecom, and AI. We help engineering teams ship faster and with fewer defects through expert staff augmentation, targeted training, and outcome-driven delivery. Whether it's 5G/4G/LTE, IoT, or real-time software on constrained hardware, we provide the talent and playbooks to build, integrate, and operate mission-critical systems.

### Core Embedded & Connected Systems

- **Embedded Software:** Firmware, device drivers, RTOS, BSPs, middleware, and secure boot. Strong on Embedded Linux and Android bring-up, board support, and performance tuning.
- **IoT & Edge:** Low-power firmware with Edge AI, connectivity over Cellular, Wi-Fi, LoRa, and Zigbee; secure OTA and telemetry; MQTT/CoAP pipelines; cloud data integration.
- **Performance & Test:** System-level optimization, memory/latency profiling, debugging on bare-metal and OS targets, HIL/SIL, hardware interfaces, and compliance testing.

### Verification, Safety, and Automation

- **V&V:** Model-based testing, requirements traceability, and standards such as ISO 26262 and DO-178C.
- **Test Automation:** HIL/SIL orchestration, regression farms, coverage, and validation at scale.
- **CI/CD for Embedded:** Automated builds, reproducible toolchains, artifact signing, static/dynamic analysis, DevOps and version control workflows tailored to cross-compilation.

### Telecom Engineering

- **3GPP Expertise:** End-to-end 2G–5G, from physical layer through NMS/OAM.
- **Protocol Stack:** PHY, MAC, RLC, PDCP, RRC—logging, debugging, feature enablement, and carrier acceptance.
- **Platform Maintenance:** L1 firmware updates, customer interfaces, test automation, and targeted enhancements.
- **Cloud-Native Networks:** SDN/NFV with OpenStack and Kubernetes; microservices, observability, and autoscaling for telecom workloads.

### AI & Cloud Services

- **Generative AI:** LLM-based apps for content creation, chatbots, and workflow automation.

- **Computer Vision:** Image/video analytics for detection, recognition, and QA.
- **Predictive Analytics:** Time-series forecasting and demand prediction to optimize operations.
- **NLP:** Sentiment, classification, entity extraction, and domain understanding.
- **Agentic Process Automation:** RPA plus AI agents to remove manual toil across back-office and NOC tasks.
- **Cloud Migration:** Seamless workload moves to cloud platforms with security, cost control, and resilience.

## Training & Staffing

- **Smart Staffing:** Rapid access to embedded, telecom, and AI engineers who integrate with your team and deliver.
- **Courses:** Practical programs including *5G Technology Certification* (16h), *5G Essentials for Business Executives* (16h), and *6G Essential Training & Certification* (16h), designed to upskill teams on current and next-gen networks.

## Industry Focus & Direction

We serve telecom, embedded product companies, and IoT-driven enterprises. Key themes shaping roadmaps: 5G and beyond, edge computing for real-time experiences, network slicing for industry use-cases, IoT expansion across cities and factories, and cloud-first security. The global 5G services market is large and growing; organizations are modernizing stacks to capture that value with reliable, scalable engineering.

**Why Qbytz:** Deep domain expertise, disciplined engineering, and a delivery model that blends hands-on builders with trainers and process experts. We don't just fill roles—we build high-performance teams that ship.