

Petr Pilarš

CONTACT

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PROFILE

An experienced professional in **software development** with a focus on **product development** and technical solutions. Currently, I work as a Technical **Product Owner** at Digiteq Automotive, where I:

- lead software development initiatives,
- collaborate with **cross-functional teams**,
- utilize **agile methodologies** to drive innovation and achieve business goals,
- contribute to development, architecture discussions and
- **hands-on coding** when needed (and I love it!).

My background includes working as a Solutions Architect, where I played a crucial role in developing remote testing software and providing expert guidance for successful software implementation.

WORK EXPERIENCE

Digiteq Automotive s. r. o. (VW Group) - (5 yrs 1 mos)

Jun 2023 - Present
(2 yrs 8 mos)

Technical Product Owner (Software Development)

- Responsible for the Remote Test Lab product within the Test Equipment Apps & Services (DTP-A) department.
- Serve as Product Owner, collaborating closely with 3 specialized teams:
 - **Development Team: 11 developers, hardware specialists, and testers (directly managed by me).**
 - Delivery Team: 3 members, managed by the Delivery Manager.
 - Acquisition Team: managed by the Acquisition Manager.
- Together, we delivered a remote access software solution (Remote Test Lab) that:
 - Improves testing processes.
 - Enhances customer satisfaction.
- Since July 2024, took over additional tactical product management responsibilities after the departure of the Product Manager:
 - Aligning the product with overall business strategy.
 - Managing reporting and operational processes.
 - Driving continuous innovation using agile methods and market feedback.

Sep 2022 - Jun 2023
(10 mos)

Technical Solutions Architect (Software Development)

I was responsible for driving the development of remote testing software. With a dynamic **team of 6** delivering innovative solutions. I provided expert technical guidance to ensure the successful design and implementation of robust, scalable software across our product line.

Jan 2021 - Nov 2022
(1 yr 11 mos)

Software Engineer (Real-Time Video Streaming App)

I was responsible for developing and maintaining software solutions that enabled remote access to testing devices, working within a focused, agile **team of 5** colleagues. I designed and implemented robust, efficient code, conducted thorough testing, and resolved issues promptly. My contributions led to improved **software performance** and measurable cost savings. I thrived in the agile environment, consistently delivering high-quality results while supporting the effectiveness of the team.

Play4Future, s. r. o. - (3 mos)

Jul 2017 - Aug 2017
(3 mos)

Programming Teacher

I was responsible for instructing **children aged 10 to 14** in the fundamentals of programming and mobile app development using MIT App Inventor 2. This included delivering content in an age-appropriate and engaging manner, sharing real-world programming experience, and following a structured curriculum. I also designed interactive Android apps and games to make learning both effective and enjoyable.

Business Community Limited Ltd (UK) - (1 yr 2 mos)

Jul 2015 - Aug 2016
(1 yr 2 mos)

Data Analyst

I was responsible for leading the analysis of client website and social media data to inform **strategic decisions**. I guided the creation of **technical proposals** to improve website architecture and implementation, and advised on optimizing the presentation of critical content. I also oversaw **process analysis** and collaborated with cross-functional teams to enhance user targeting and advertising performance on social platforms.

EDUCATION

2018 - 2020
(2 yrs)

Czech Technical University in Prague (Master's degree)
Faculty of Information Technology
Field of study: Knowledge Engineering (AI and machine learning algorithms)
Master thesis: Detection and tracking of vehicles from video sequence for analytical purposes

Developed a solution for vehicle detection and tracking using the **Transformer-based DETR model**. The thesis includes analysis of **neural network** architectures and existing approaches, with implementation trained and evaluated on the VisDrone dataset.

2015 - 2018
(3 yrs)

Czech Technical University in Prague (Bachelor's degree)
Faculty of Information Technology
Field of study: Computer Software Engineering and Web Engineering
Bachelor thesis: Adaptive web interface for biological database

I analyzed the challenges of collecting **biological data** in the field and developed a responsive, user-friendly **web application** to streamline the process. The project addressed both visual design and backend security aspects, including conditional user **authentication**. It also implemented object-relational mapping for communication with a custom-built database. A key feature of the application is its **offline mode**, which ensures continued usability in environments with limited or no internet connectivity. The work also included the creation of an administrative interface, a REST API, and an evaluation of existing solutions.

2011 - 2015
(4 yrs)

Gymnázium Arabská (Secondary technical school)
Field of study: Information Technology
Degree certificate: School leaving examination / Graduation certificate

CERTIFICATES

- **ISTQB® Certified Tester Foundation Level** (Czech and Slovak Quality Board)
- **ITIL® 4** (TAYLLOR & COX)
- **BABOK Practitioner®** (TAYLLOR & COX)
- **Certified SAFe® 6 Product Owner/Product Manager** (Scaled Agile, Inc.)
- **JoeDX - Software and Hardware Digital Transformation** (Agile Business Institute)

KNOWLEDGE

Driving license:
Boat license
Languages:

- **B** (daily driver, enthusiast of Japanese cars – weekend driving included)
- In Progress
- **Czech** - Native language, **English** - Level B2/C1, **German** - Level A2

Technical Skills

- **Languages:**
 - **BE:** C++, Java (Java Spring), Python, PocketBase, scripting (bash, WSL, cmd, powershell),
 - **Interfaces:** REST APIs, GraphQL APIs, Websockets,
 - **FE:** JavaScript (TypeScript), HTML, CSS, Bootstrap, Material Design,
 - **Low level:** C, MicroPython, Assembler, sensor data processing (analog and digital),
- **Cloud** (Docker-based deployments):
 - AWS (S3 - for files, IAM - rules, Lambda - action, CloudWatch - logs, EC2 - VMs),
 - Google Cloud (Repositories, Cloud Build - CI/CD triggers, Artifacts, Firebase),
 - CloudFlare (Tunnels, Pages),
- **DBs:** PostgreSQL, MySQL, SQLite, Casandra, Hadoop, ElasticSearch,
- **Als:** ChatGPT, Claude, Agents, Gemini, Copilot, Perplexity, DeepSeek, OpenCV,
- **Analytics:** Grafana, Prometheus, Loki, Google Charts, Thinfinity, BatchPatch, webhooks for Slack,
- **HW:** soldering, CAD design, 3D printing, smart home integration, RPI, Arduino,
- **SW team collaboration:** Microsoft Office, JIRA, Confluence, Git, Miro, Draw.io, Slido,

Methodologies

- **Agile** frameworks: Scrum and SAFe – 4.5+ years of active participation
- **Waterfall** and mixed methodologies

Innovation, Product Thinking & Creative Leadership

- Strong focus on product innovation and idea incubation as part of Digiteq Automotive's **Innovations Hub**.
- Since 2021, active contributor and **innovation ambassador**.
- Involved in crowdsourcing ideas, shaping product visions, testing concepts via virtual marketplaces, and co-creating patent applications.
- **Design Thinking**, **Double Diamond**, Product Innovation, and **Human-Centered Design** practices.
- Active speaker at **Share&Breakfast** – a monthly internal event (up to 500 live viewers) to share cross-company trends, news, and innovation topics.