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# Kemp Dewulf

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## Education

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**Bruges, Belgium**                      **Howest University of Applied Sciences**                      **Sep 2022 - (Jun 2025)**

- Bachelor of Applied Computer Science (Specialization: Software Engineering)

## Employment

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**Citymesh - Software Engineering / Research Intern**                      **Feb 2025 - May 2025**

- Designed and developed a **5G** network testing application from the ground up, enabling the research team to conduct accurate location-based diagnostics.
- Built a cross-platform interface using **Flutter** and **Dart**, supporting both GUI and CLI workflows for flexible usage across test scenarios.
- Implemented automated **CI/CD** pipelines using GitLab and **Docker**, streamlining build, test, and deployment processes for faster iteration and feedback.
- Engineered an **indoor navigation system** with a floor-plan upload feature, tackling spatial accuracy challenges and expanding the tool's testing environment support.

**Lidl - IT Support Technician**                      **Jul 2023 - Aug 2023**

- Replaced ~50 laptops across multiple Lidl Belgium offices, ensuring seamless transitions with minimal disruption.
- Assisted staff with software setup and troubleshooting, applying critical thinking and clear communication to resolve common IT issues.

## Projects

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### Sky Eye android app

- **Kotlin** application to display airports on global map
- Use of **Jetpack Compose** UI kit

### Hopix beer rating website

- Website made with **Vue.js** and **Tailwind**
- **Laravel** back-end server
- **JWT** user authentication
- Multi-language support using **localization**
- Backoffice for admins

### EnviroSense – Smart Air Quality Monitoring System

- Worked closely with a peer to develop a full-stack IoT system
- Developed **ESP32**-based IoT devices with environmental sensors and automated window control
- Built a Deno.js backend with **RabbitMQ** messaging and **Docker**-based **CI/CD** deployment
- Created a **Flutter app** for real-time monitoring, device management, and alert notifications

## Technical Skills

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- Languages: Java, C++, Dart, Laravel, Python, JS/HTML/CSS, SQL, InfluxDB
- Frameworks and Libraries: Flutter, Vue.js, Tailwind
- Tools: Git, Linux, Docker, MQTT, CI/CD, Azure, Firebase, Grafana