

# Profile

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*Software and Firmware Engineer  
Passionate for developing software  
and firmware applications and  
communication protocols.*

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**Presenter:**

Iván D. Oviedo A.

# Iván D. Oviedo A.

Telematic Engineer at ESPOL

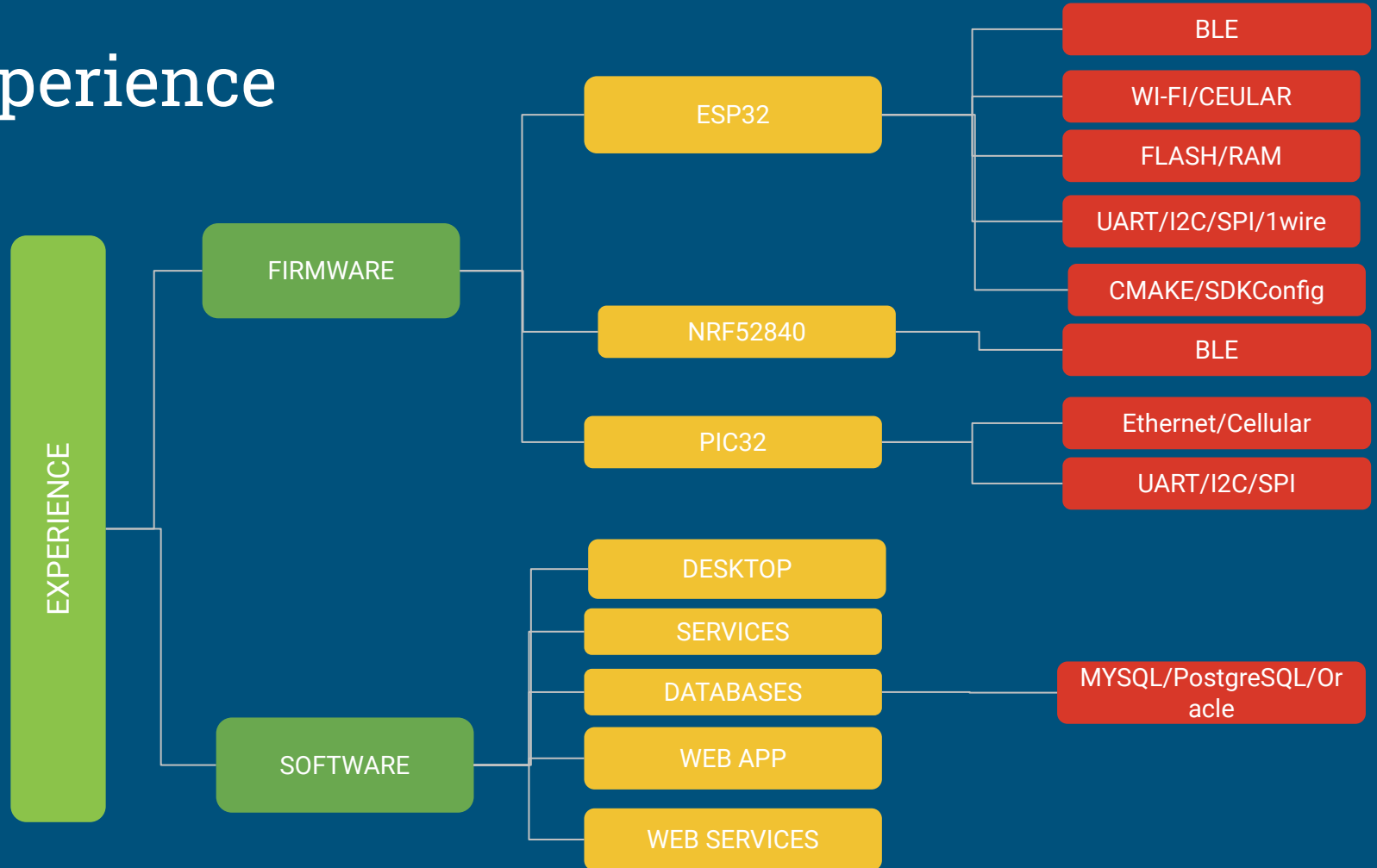
Telecommunication System Technology at ESPOL

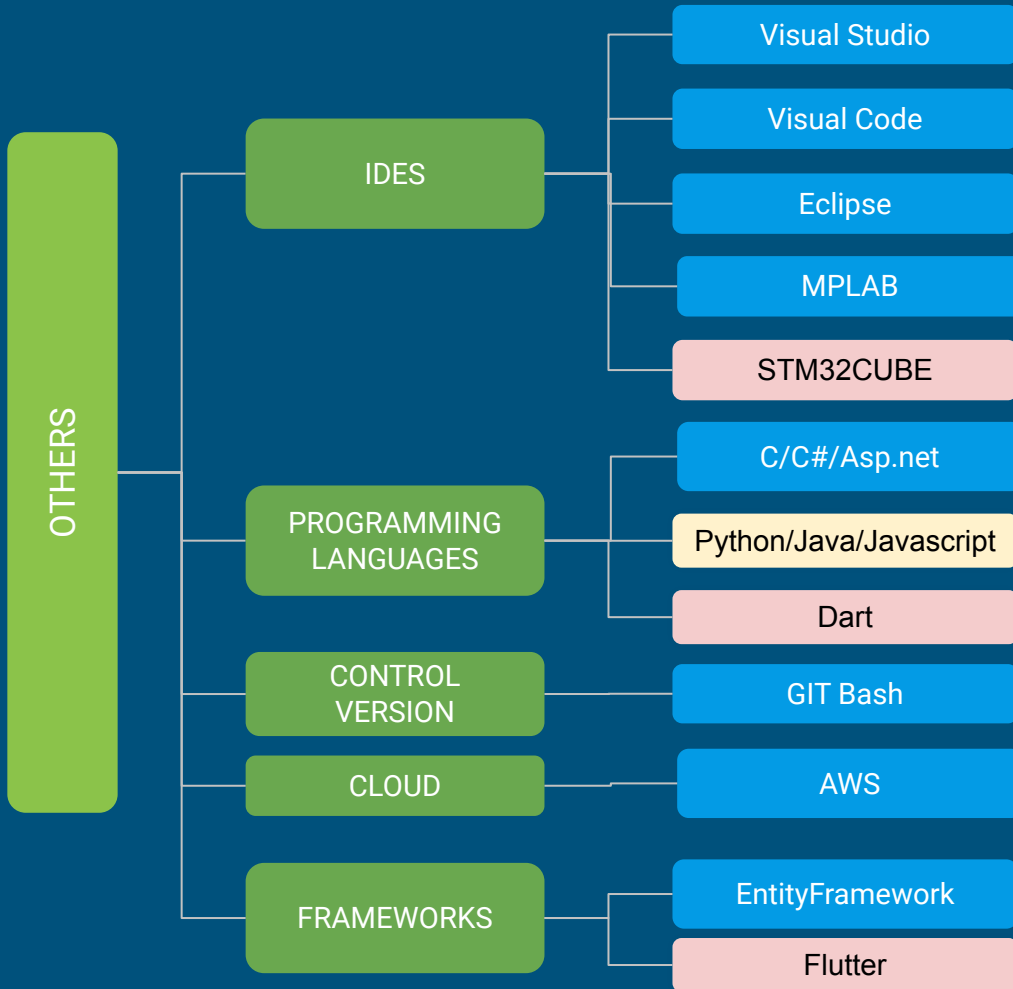
+6 year of experience in IOT industry

Others: Speaker/Jury/Consulting member at ESPOL  
university

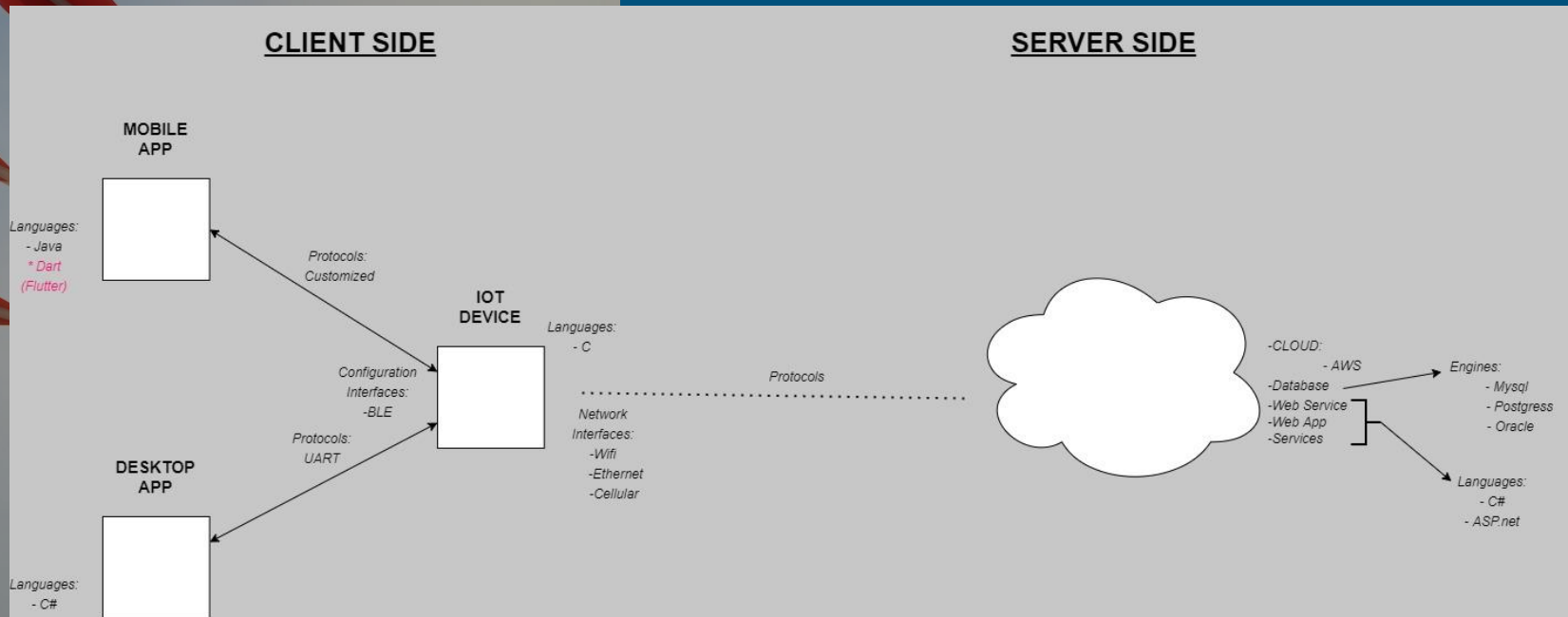
*“Using the engineering as a powerful tool to  
improve our lives”  
Iván D. Oviedo A.*

# Experience





# Overview Experience



# Product Designer

A close-up photograph of a target with concentric rings. Three arrows with red fletching and white shafts are embedded in the target, all pointing towards the center bullseye. The background is a soft, out-of-focus sky.

- Design the product specification
- Design the software/firmware/protocols
- Design working cycle
- Product leader
- Production software designer

# Firmware roles



- API Design and implementation (Components)
- Design private IOT protocols
- Testing&Debugging concepts in hardware development kit
- Programming
- Evaluation of MCU's
- Use of equipments: oscilloscope/logic analyzer/multimeter
- Sniffer Monitor Serial
- Create Flash structures
- Compression: MiniZ
- Read schematic
- Team leader
- Documentation
- Analyze raw data
- OTA

# Software roles



- Database designer/developer
- Service designer/developer
- Network Sniffer (Wireshark)
- Webservice developer -SOAP
- Team leader
- Documentation
- Desktop developer: communication over serial with IOT devices



# Other roles



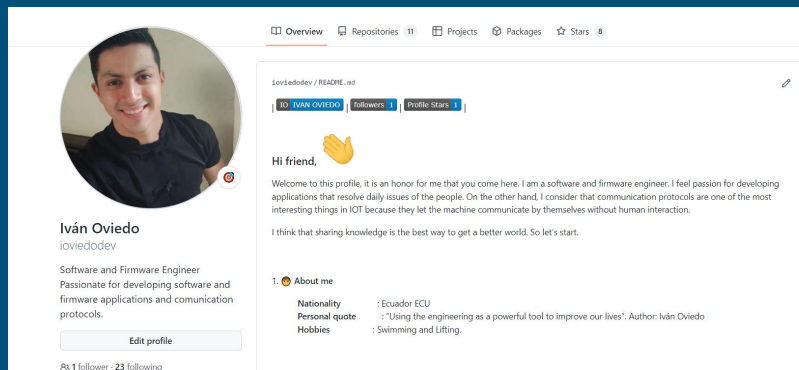
- Integrator with partners
- Technical Support
- Quotation of cloud servers in aws
- Writing patents in USA

# Achievements

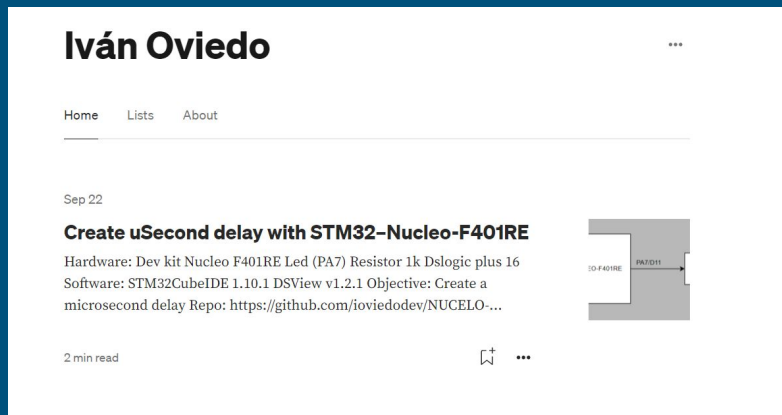


- Products sold in ECU/CHILE/MX
- Products are testing and soon sell in USA
- Platform (services/database) support miles of devices
- Publication at IEEE

# Personal websites



<https://github.com/ioviedodev>



<https://medium.com/@ivanoviedo91>

# Coming soon



-Docker/CI/Jetkins/TDD

-Django

# Thanks

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*Iván D. Oviedo A.*