





sAlns-digital

" Digitalizing the Laboratory, Bridging the Gap with IoT Integration"

(Hackathon Theme: Building Intelligent Products and Platforms)

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1. Lab Instruments Problem



- The existence of laboratories play a vital role in research, but many are still reliant on manual data entry and outdated processes, hindering efficiency and collaboration
- Conventional laboratory instruments often lack connectivity (they don't have output at all), making data collection and analysis cumbersome and time-consuming



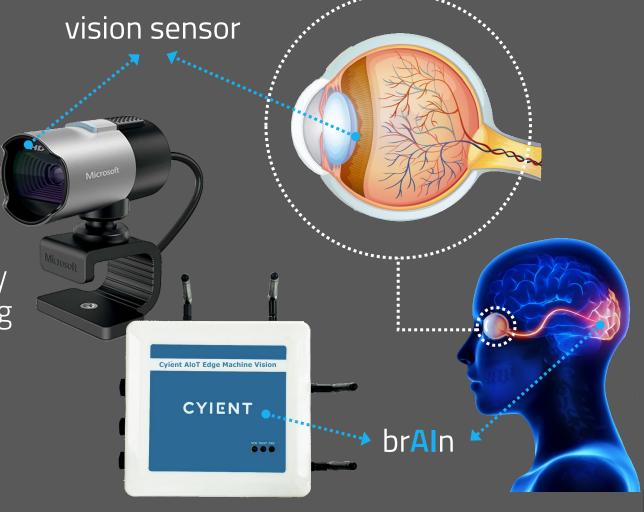




2. Machine Vision Solution



The word "science" in Bahasa Indonesia is "sains" (literally there is an "Al" in it). sAlns-digital provide **Artificial Intelligence** based solutions, using Machine Vision technology to imitate the human eye's function in seeing the instrument output and automatically send the output data (without having to write by hand on paper or type on a keyboard)



3. Value Proposition



- sAlns-digital will revolutionizes laboratory operations, improving data accuracy, and streamlining research processes
- Benefits:
 - Will reduce data entry errors
 - Accelerated research with real-time data access
 - Enhanced collaboration through shared data repositories

4. Unique and Feasible



- Implementation:
 - The sAlns-digital device easily attach to lab instruments
 - Seamless integration with cloud platforms for data storage and analysis
- Differentiator:
 - sAlns-digital is the first universal IoT solution for laboratories, bridging the gap between conventional and modern instrumentation
 - Cost-effective and user-friendly, sAlns-digital sets a new industry standard
- Unique Aspects:
 - Universal compatibility with existing lab equipment
 - Real-time data transfer to cloud-based platforms
 - Integration with data analytics tools for instant insights

5. Impact and Sustainability



- Impact:
 - Significant reduction in paper usage and waste
 - Accelerated research leads to faster discoveries
 - Enhanced data-driven decision-making in laboratory operations
- Sustainability:
 - Reduced environmental impact through paperless data collection
 - Ongoing data analysis leads to resource-efficient processes

6. Meet salns-digital Team ...





Danny Ismarianto Ruhiyat

AloT Engineer

- Meet Danny Ismarianto Ruhiyat a.k.a danito the solo fighter in sAlns-digital team as an AloT Engineer
 - More than 3 years experience in Vision Computing
 - More than 7 years experience in Internet of Things
 - Has won various national and international hackathons
 - Has studied Chemistry and IT majors (quite familiar with the science laboratory and its instruments)
 - https://www.linkedin.com/in/dannydanito/
 - https://www.instagram.com/danito_net/
 - https://sAlns.digital/