

Linear Motion Robotic Machine (LMRM)
Legacy Terminals' Automation Test



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#2 Wining Idea

- Christos Fousteris
- Panos Mavrogiannopoulos
- Orestis Kolias



The Problem

- At least 10 new terminal versions per week
- 100K+ legacy Terminals on the field
- Rolling out a new terminal version brings high risk to the field
- Terminal production incidents bring significant loss of sales
- 20+ QC Engineers to execute regression test for Terminals only
- Regression test
 - x You cannot avoid it
 - x Takes time
 - x It's boring
 - x It's prone to human errors
 - x For terminals remote testing is impossible
 - x Production incidents out of business hours require onsite presence



The Solution

HW: Linear Motion Robotic Machine

Brains: Raspberry Pi

SW: Python & PHP

Product Capabilities:

- Touch Screen Control
- Remote Scenario Recording
- OCR validation (Machine Learning)



How Python was used in this project



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