Isn’t Test Automation a Silver Bullet?

The most common pitfalls

Mesut Durukal
Automation is great..

- Saves time
- Improves coverage
- Eliminate human effort
- Performs tasks that cannot be done by manual testers
BUT
Product

Frequent Updates / Changes

How the customer explained it
How the project leader understood it
How the analyst designed it
How the programmer wrote it
How the business consultant described it
How the project was documented
What operations installed
How the customer was billed
How it was supported
What the customer really needed
Product

Unstable / Tricky Behaviors
Product
Hardware
TRAVELLING SALESMAN PROBLEM

Greedy Algorithm

FROM THIS

TO THIS
Product
Testing AI / Perception

Quality Assurance
ACF Technologies Inc - Asheville, NC
Quality Assurance assesses software quality through manual and automated testing and is responsible for finding and reporting bugs and glitches.
Estimated: $69,000 - $88,000 a year
Quick Apply

Quality Assurance Engineer
Astronautics/Kearfott Corporation - Black Mountain, NC
This position is responsible for performing various professional level duties ranging from simple to difficult complexity within varied quality activities with...
Estimated: $56,000 - $75,000 a year
Quick Apply

Quality Assurance
ACF Technologies Inc - 2.7
Asheville, NC
Sign in for commute time

Job Details
Full-time

Qualifications
SDLC
Implementation

Not always easy to build / set up
Implementation

Not always easy to figure out
Execution

Long Running Tests
How many legs does this elephant have?
Last, but not least

Coverage

Testing shows the presence, not the absence of bugs.

Edsger W. Dijkstra
Wrap Up

Common problems:

- Product
  - Coping with update/changes
  - Instabilities
  - Tricky Behaviors
  - Hardware in SUT
  - Testability
  - AI / Perception
- Setup / Implementation
- Maintenance
- Executions

Fundamental solutions:

- Product
  - Collaboration with Product team
  - Collaboration with Dev team
  - Locators/Selectors improvement
  - Various verification approaches
  - Simulation and test harness
  - Non-functional testing
- Code Quality
- Monitoring
- Duration analysis
Any further questions?

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