

**Isn't Test Automation a
Silver Bullet?**
The most common pitfalls

Mesut Durukal



 mesutdurukal

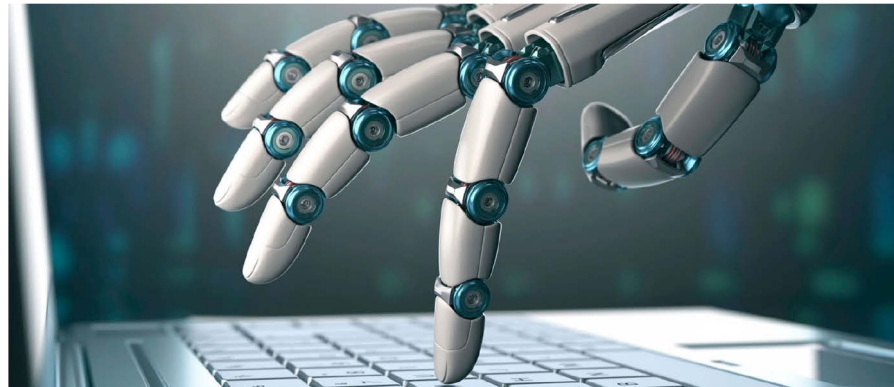
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Automation is great..

- 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



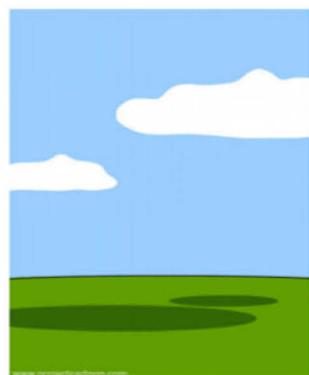
How the analyst designed it



How the programmer wrote it



How the business consultant described it



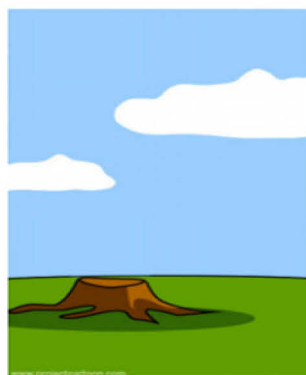
How the project was documented



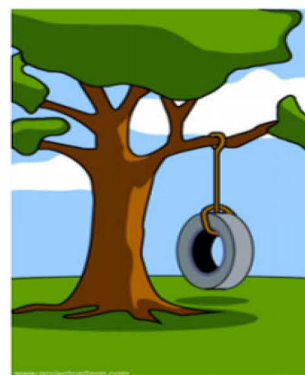
What operations installed



How the customer was billed



How it was supported



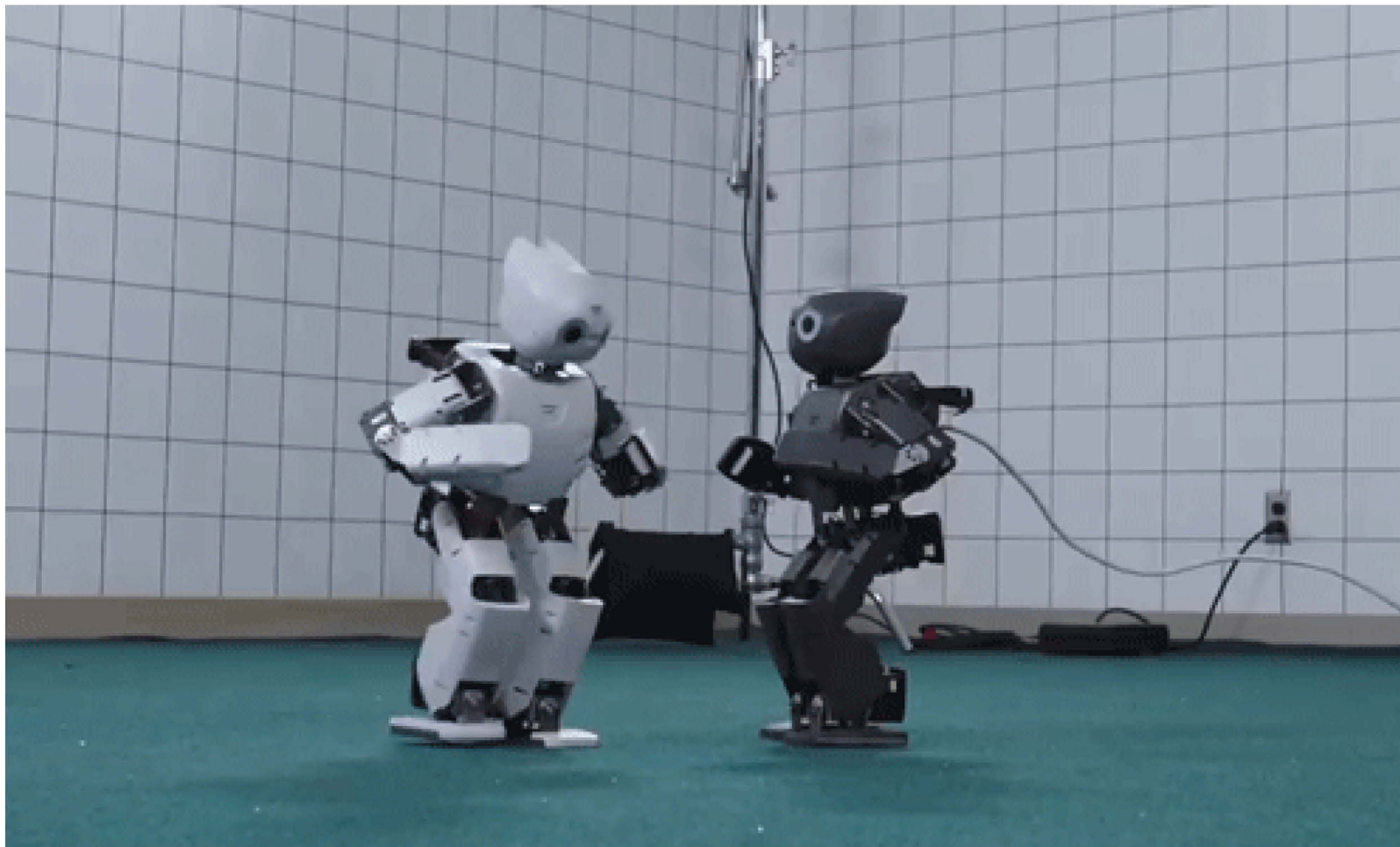
What the customer really needed

Product

Unstable / Tricky Behaviors



Product Hardware



Product

Testability

TRAVELLING SALESMAN PROBLEM

Greedy Algorithm



Product

Testing AI / Perception

SimplyHired.

[Search Jobs](#)

Relevance

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

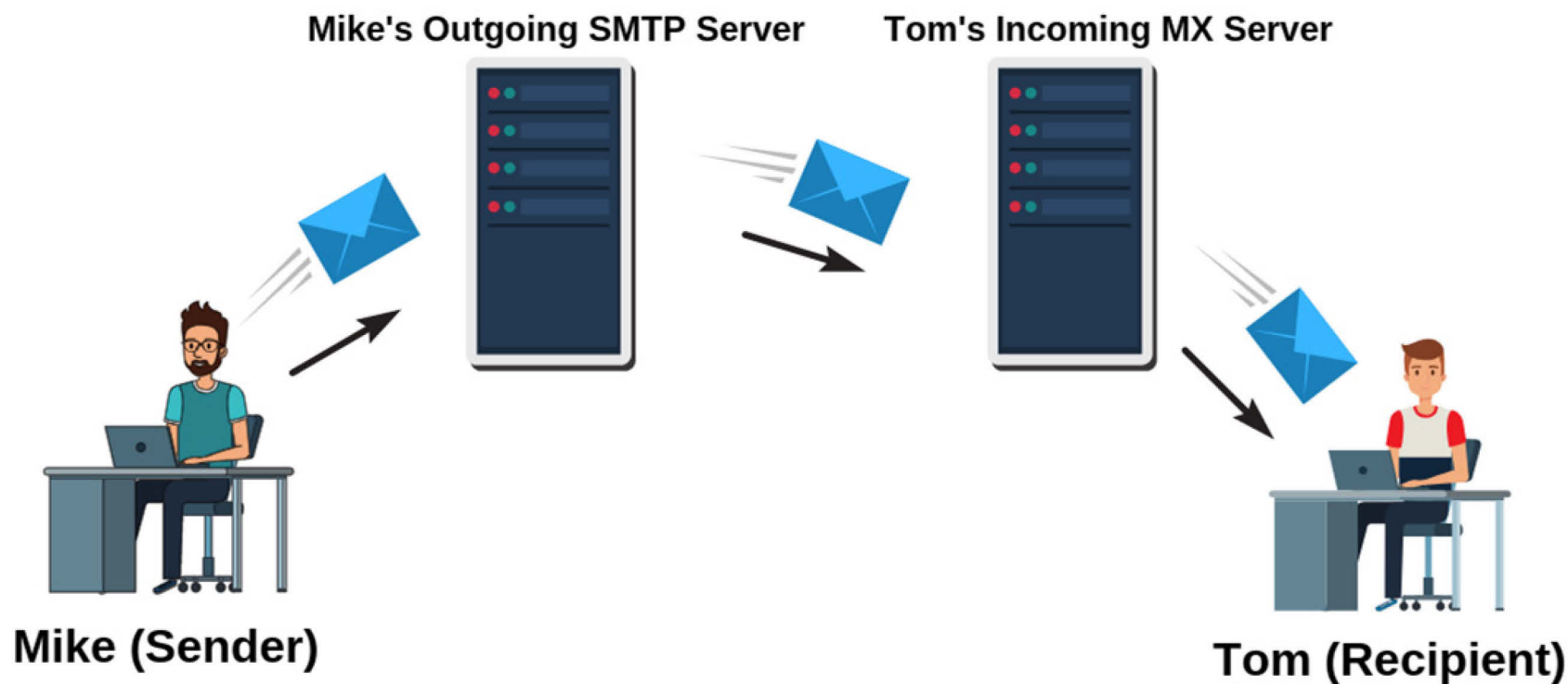
Full-time

Qualifications

SDLC

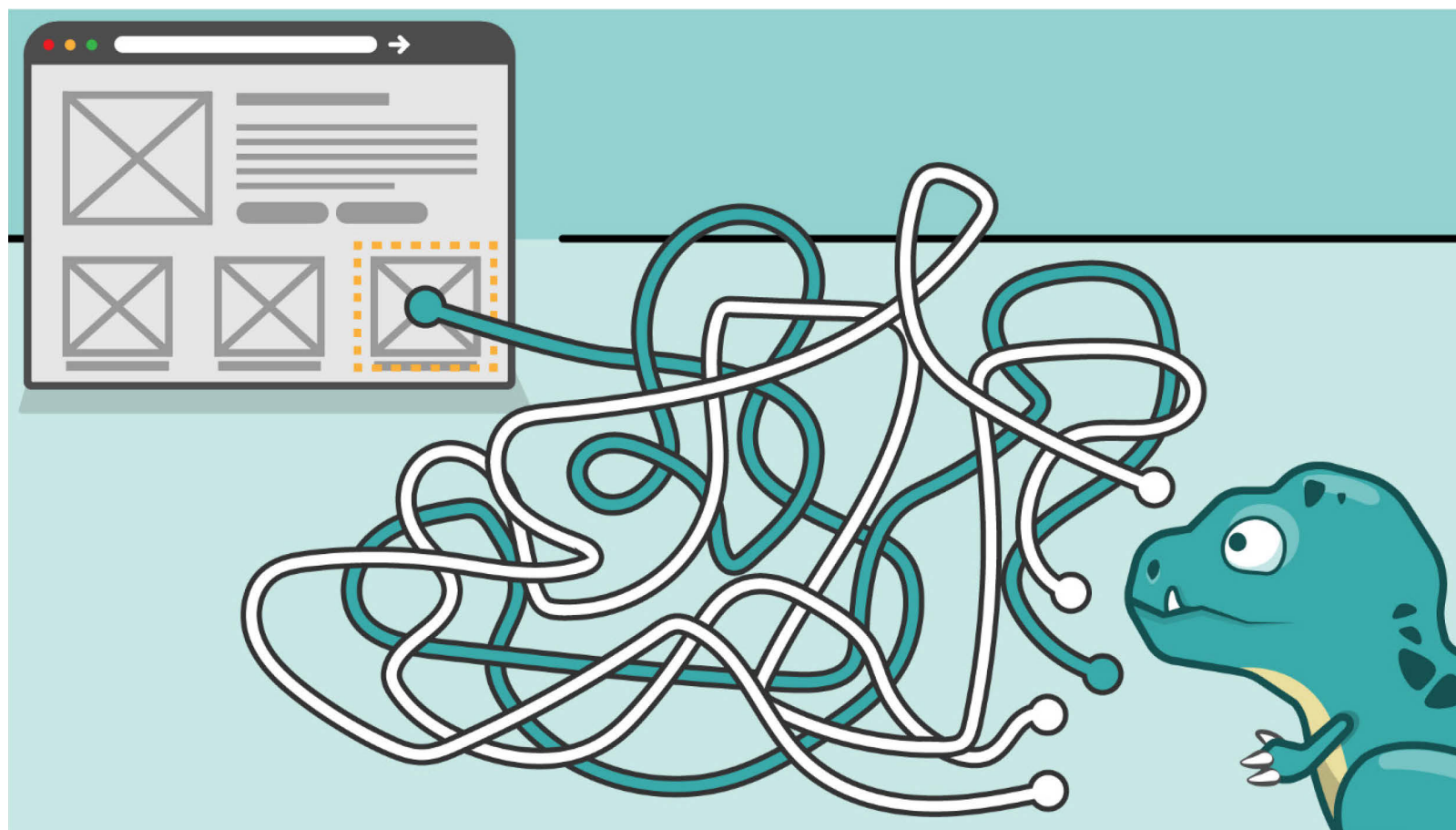
Implementation

Not always easy to build / set up



Implementation

Not always easy to figure out



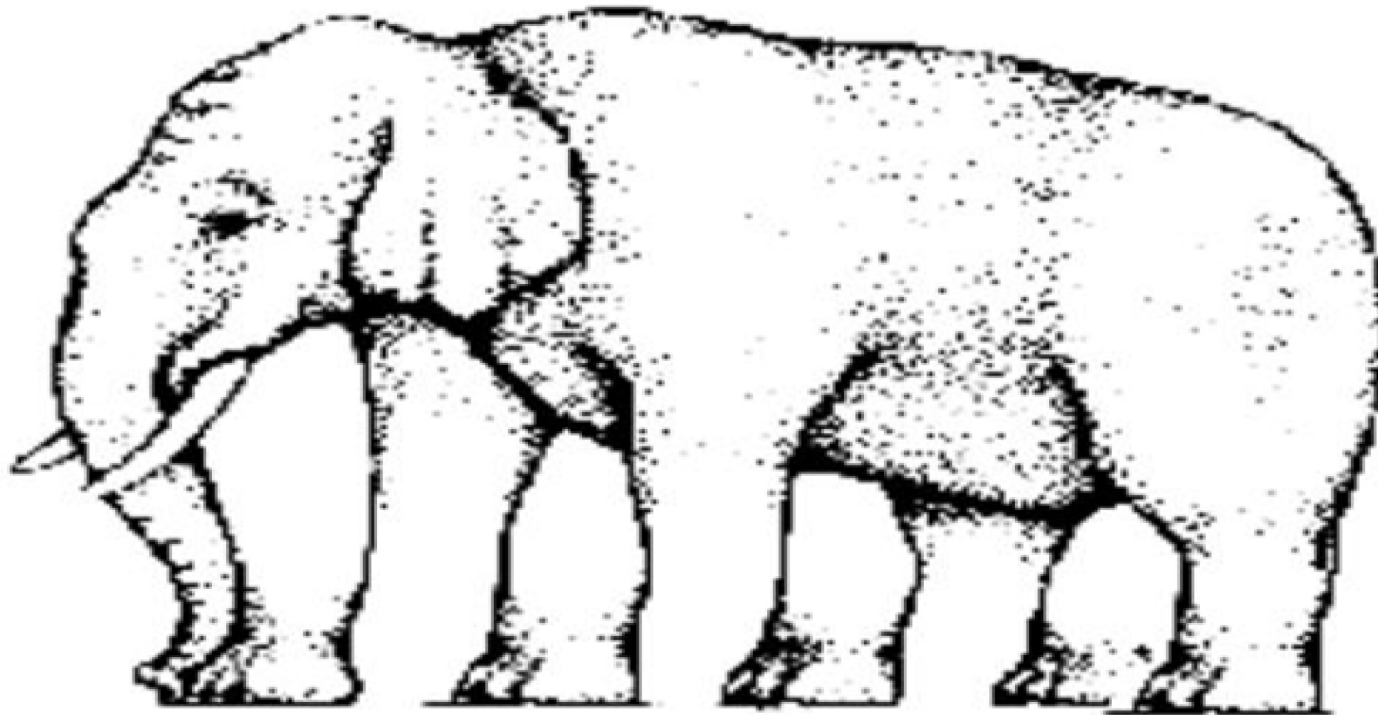
Execution

Long Running Tests



Maintenance

Illusion of Fixing



How many legs does this elephant have?

Last, but not least

Coverage

Testing shows the presence,
not the absence of bugs.

Edsger W. Dijkstra

quote fancy

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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