2025-11-01

section 0

[2em] **Part Overview · Duration: F**

Beginner-Friendly Visual Study Guide

inal deliverables, completion status, and future roadmap for the DIP-SMC-PSO toolkit.

section 0 Phase 5 Research Deliverables

subsection 0.0 Completion Status

Task Category	Status
Quick Wins (QW-1 to QW-5)	5/5 (100%)
Medium-Term (MT-5 to MT-8)	4/4 (100%)
Long-Term (LT-4, LT-6, LT-7)	3/3 (100%)
Total	**11/11 (100%)**

subsection 0.0 LT-7 Research Paper

- Status: Submission-ready (v2.1)

- Figures: 14 publication-quality

- Bibliography: 39 entries

- Automation: Scripts regenerate all figures from raw data

section 0 Production Readiness

- Current: 23.9/100 (research-ready)

- Target: 80/100 (production-ready)

- Effort: 200-300 hours (Phase 4.3-4.5)

- Timeline: Post-publication

section 0 Future Work

subsection 0.0 Phase 6: Real-World Deployment

- Hardware-in-the-Loop experiments

- Real-time constraints (<10ms latency)

- Safety validation (fail-safes, constraints)

- Field testing (1000-hour endurance runs)

subsection 0.0 Phase 7: Community & Open Source

- Public GitHub repository

- Sphinx docs on Read the Docs

- Video tutorials (YouTube)

- Community forum

Series Complete

DIP-SMC-PSO Professional Toolkit
Complete Series: E001-E029 (29 Episodes)
Phase 1: E001-E005 (5 episodes)
Phase 2: E006-E014 (9 episodes)
Phase 3: E015-E021 (7 episodes)
Phase 4: E022-E029 (8 episodes)

Thank you for following this journey!
– End of Series –