ONLINE PROJECT COLLABORATION
& ON-CAMPUS IMPLEMENTATION

BRENT PHILLIPS
CENTRE FOR ENGINEERING
& INDUSTRIAL DESIGN
THE NEXT 9 MINUTES

Goals

✓ **Learn about** Brent’s project experience
✓ **Create / Modify** a concept for a team-based project for your distance-learning students
✓ **Suggest** an improvement for Brent for his 2016 July cohort

Assumed you know

✓ Benefits of Project-Based Learning
✓ Terminology for digital learning
OVERVIEW

• Level 5 module in NZDE
  ❖ PLC Programming 1
  ❖ Online learning + 2x block courses

• Students mostly working in industry around NZ

• IPENZ graduate attributes for NZDE
  ❖ Teamwork
  ❖ Problem solving
  ❖ Communication
THE PROCESS

Distance / Online environment

• Fundamental skill development
• Teams Allocated by Tutor
• Workload Shared Out
• Detailed Project Proposal + Individual Reflection
• Individual Drafts + Collaboration
• Individual Reflection

On-Campus Block courses

• More skills
• Intro to Project Requirements & Equipment
• Finalise & Test Individual Parts
• Combine Parts & Demonstrate

Fundamental skill development
EXECUTION

• Timely Communication
• Work / other commitments
• 3 Students withdrew from course
• Time pressure during final block course

• 4 of 5 teams met all demonstration targets
• Proposals average mark 69% (vs 81%)
• Overall average mark 72% (vs 73%)
• Developed technical + soft skills
SUMMARY

• Challenged students to collaborate
• Physical output from the project, Digital draft work
• Excellent standard of final work
• Availability Difficulties

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Online collaboration about this approach via Google Docs