ONLINE PROJECT COLLABORATION & ON-CAMPUS IMPLEMENTATION

BRENT PHILLIPS

CENTRE FOR ENGINEERING

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Wintec
WAIKATO INSTITUTE OF TECHNOLOGY
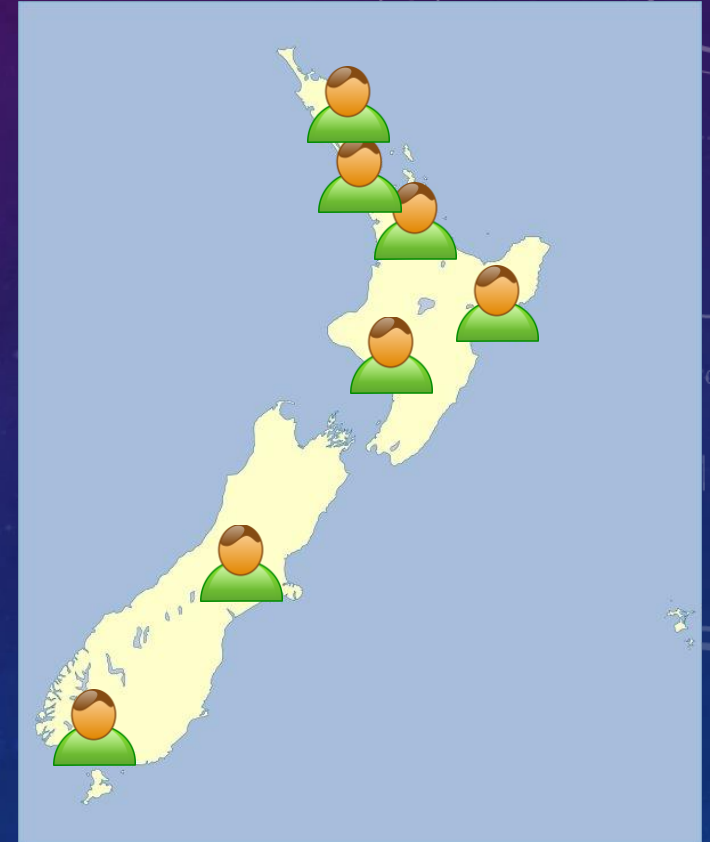Te Kuratini o Waikato

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
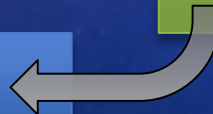
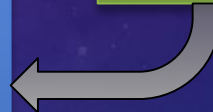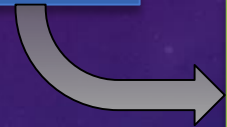- Fundamental skill development

- Teams Allocated by Tutor
- Workload Shared Out
- Detailed Project Proposal + Individual Reflection
- Individual Drafts + Collaboration

- Individual Reflection

On-Campus Block courses

- More skills
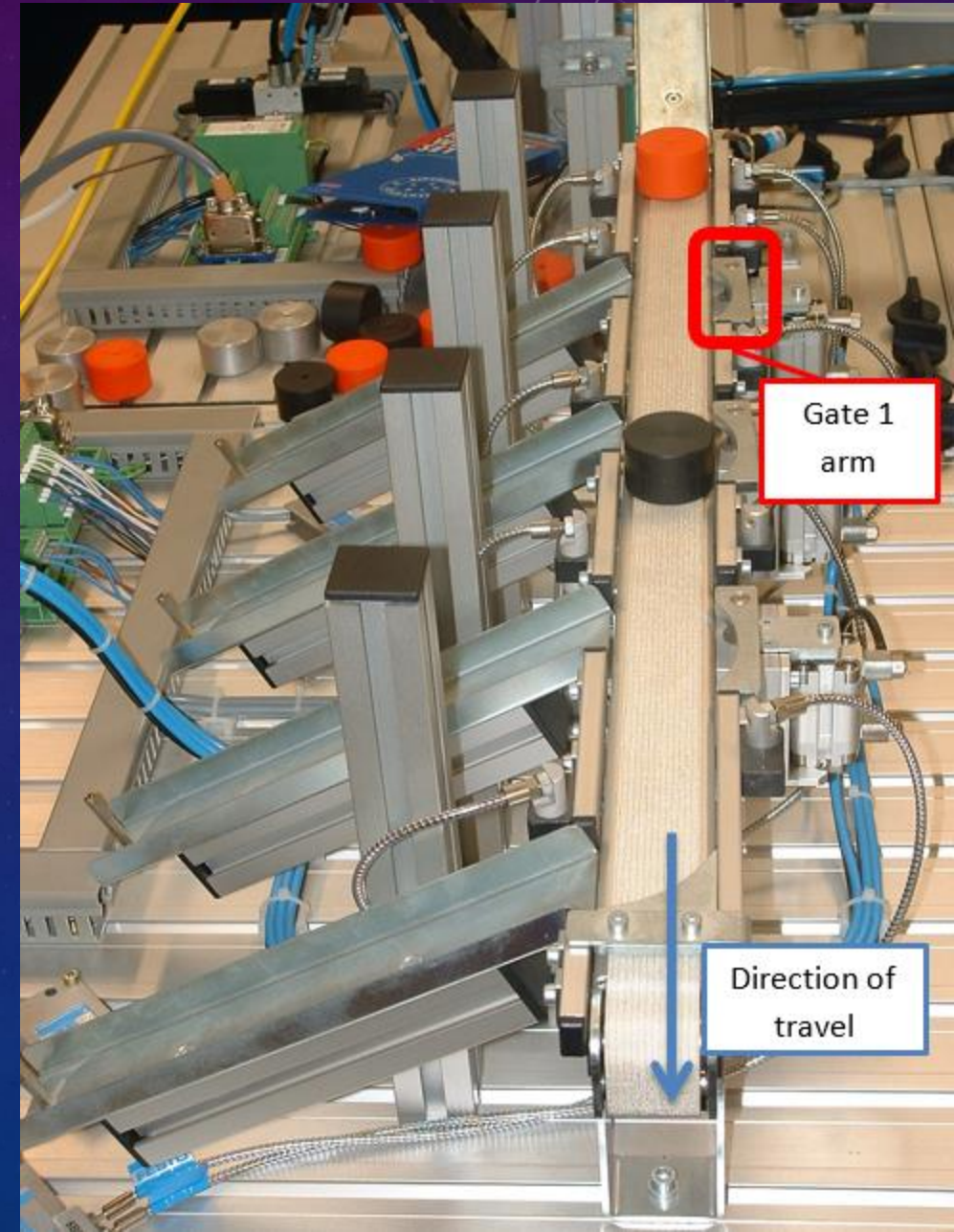- Intro to Project Requirements & Equipment

- Finalise & Test Individual Parts
- Combine Parts & Demonstrate

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%

- Overall average mark 72%

- Developed technical + soft skills

Gate 1 arm

Direction of travel

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