• Winthrop Engineering is one of Ireland’s leading mechanical and electrical contracting companies.

• Established in 1995, Winthrop now has offices in Dublin, Cork, Waterford and London and employs over 400 people.

• Projected turnover for 2014/2015 is €60m

• Our focus is on the safe delivery of quality projects, on time and within budget.

• Winthrop is committed to maintaining standards of excellence in all aspects of business.

• Large complex projects have been delivered across the IT, Industrial, Healthcare, Pharmaceutical, Public Works and Commercial sectors.
**Data Electronics**  
Ballycoolin, Dublin

**Client:** Data Electronics  
**Value:** €8,500,000  
**Size:** All Phases comprised 3,888 sqm. Phase 1 648sqm fitted out.

**Winthrop Scope:** Design & Build Mechanical, Electrical & Building Works.  
**M & E Consultant:** McArdle MacSweeney Associates  
**Main Contractor:** Winthrop

**Description of Works:**  
Commissioned by the Client to deliver an operational Data centre. Existing Premises to be converted to 3 floors of Data hall at 1296sqm/floor and adjacent 2,376 sqm Warehouse to be configured into M & E Plantrooms. Plant selected on an N+ 1 Basis with UPS on an N + N. Objective was to achieve Tier IV compliance

**Key Point:**  
Client required design & costing for full scale project. Winthrop then developed a phased build-out strategy to align with commercially viable Phases to suit Client funding plans. Security measures included electric gates, bollards, hand biometric scanners, IP presence detection CCTV.

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**Interxion, Phases 1, 2, 3 & 5**  
ParkWest, Dublin

**Client:** Interxion  
**Value:** Phases 1,2,3,5 €10.2m, Phase 4 pending  
**Size:** All Phases 2400sqm at 1.5kW/sqm

**Winthrop Scope:** Mechanical & Electrical Design & Build Subcontract  
**M & E Consultant:** Ethos Engineering (for Winthrop)  
**Main Contractor:** StructureTone Limited

**Description of Works:**  
Winthrop was commissioned to deliver an overall M & E Design & Build solution for Interxion. This fast track programme was planned across 4 Phases to ensure programme timelines were met in a timely and cost effective manner. Phases 1, 2, 3 & 5 are complete. Phase 4 is yet to commence.  
**Project Summary:** P1 & P2 Construction of 4 no. Data Halls & Plant. P3 Additional Capacity in existing Data Halls, P5 Extension to Data Centre, 2 New Data Halls and significant additional plant. All plant was selected on an N + 1 basis, with N + N for the UPS. Fully detailed Integrated System Testing (I.S.T.) planned & executed.

**Key Point:**  
For Program & cost advantage all electrical Switchgear & UPS were manufactured and assembled off site into purpose made Plant rooms which were then shipped to site intact and required final connections only.
**MFN (Metromedia)**
CityWest, Dublin

- **Client:** MFN (Metromedia)
- **Value:** €4,540,000
- **Size:** 100,000 sq ft

**Winthrop Scope:** Mechanical Subcontract

**M & E Consultant:** M.E.I.T. Associates, UK

**Main Contractor:** StructureTone Ltd

**Description of Works:**
Winthrop secured the Mechanical & Controls System subcontract for the works which required the fast-track completion of the main plant & distribution system & the fit-out of the Ground Floor Data Hall space initially.

**Key Point:**
The overall program for the works was 16 weeks which included all associated building works, therefore the M & E scope had to be completed within a compressed 12 week window.

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**Worldcom MKI IDC**
Clonshaugh, Dublin

- **Client:** Worldcom
- **Value:** €4,400,000
- **Size:** Total Data Hall Space 3,154sqm with 1,288sqm fully fitted out

**Winthrop Scope:** Mechanical Subcontract

**M & E Consultant:** McArdle MacSweeney Associates

**Main Contractor:** Patton’s Limited

**Description of Works:**
Winthrop won the Mechanical subcontract for the works which required the fast-track completion of the main plant & distribution system and the fit-out of 1,288 sqm of Data Hall space initially.

**Key Point:**
For program advantage the main Chilled Water plantroom was fully pre-fabricated off-site. All plant selected on an N +1 Basis with fully looped Chilled Water Distribution systems.
**Worldcom**
Erne Street, Dublin

**Client:** Worldcom  
**Value:** €2,600,000

**Winthrop Scope:** Mechanical Subcontract  
**M & E Consultant:** McArdle MacSweeney Associates  
**Main Contractor:** Patton’s Limited

**Description of Works:**
Fit-out of two floors of Technical space. Mechanical Scope comprised Full Chilled water system comprising three 600kW Chillers and 1 Dry coolers for free cooling and 35 in-room Close Control Units

**Key Point:**
Chilled Water System was designed to operate at 10°C Flow & 15°C Return to utilise Free Cooling by the Roof mounted Dry Cooler when ambient conditions favorable.

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**Wolfe Consulting**
Unit 10C, ParkWest, Dublin

**Client:** Wolfe Construction  
**Value:** €2,300,000

**Winthrop Scope:** Full turnkey solution, Design, Installation & Project Management  
**M & E Consultant:** McArdle MacSweeney Associates  
**Main Contractor:** Winthrop Engineering

**Description of Works:**
Commissioned by the Client to deliver an operational Data centre from initial premises selection, appointment of professional team and onto full installation, commissioning & handover.

**Key Point:**
Client required design & costing for large scale project including expansion to adjacent premises. Winthrop then developed a phased build-out strategy to comply with Clients funding plans.
**Inflow**
Kilcarberry Park, Dublin

- **Client:** Inflow
- **Value:** €2,000,000
- **Size:** 2,000sqm of Data Hall in total with 616sqm fully fitted out.

**Winthrop Scope:** Mechanical services Installation
**M & E Consultant:** McArdle MacSweeney Associates
**Main Contractor:** StructureTone Ltd

**Description of Works:**
Mechanical subcontract to complete the Main Plant & Distribution with fit-out of initial phase.

**Key Point:**
The overall program for the works was 16 weeks which included all associated building works, therefore the M & E scope had to be completed within a compressed 12 week window.

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**Data Electronics**
Kilcarberry Park, Dublin

- **Client:** Data Electronics
- **Value:** €1,500,000
- **Size:** Further fit-out to (Inflow) by a new Owner

**Winthrop Scope:** Design & Build Mechanical, Electrical & Building Works.
**M & E Consultant:** Winthrop (McArdle MacSweeney Associates)
**Main Contractor:** Winthrop

**Description of Works:**
Mechanical, Electrical & Building Works installation to complete fit-out of Data Hall and create new space.

**Key Point:**
The project was carried out in a live and operational data centre and all works were coordinated to ensure no downtime to existing services.
DATA CENTRE EXPERIENCE

Mentor Graphics
East Park Shannon  Free Zone, Shannon, Co. Clare

Client: Mentor Graphics
Value: €8,000,000
Duration: 9 months

Winthrop Scope:  M & E Specialist & Main Contractor:

Description of Works:
Winthrop were awarded the complete Turnkey works contract for the construction of the new Data Centre facility at Mentor Graphics (Ireland) Ltd. The project involves the Building and Fit-Out of Specialist Mechanical and Electrical Services at Mentor Graphics with the addition of a Tier 2+ Data Centre with plant facilities and supporting office space, car parking, service yard, new vehicular entrance and site services. Mentor Graphics is a leader in electronic design automation. They produce innovative solutions to enable Engineers overcome design challenges in the rapidly changing environment of board and chip design.

Key Point :
Winthrop Engineering managed the Project Supervisor Construction Stage role throughout the works, and this required extensive consultation with the Shannon Airport Authority regarding lifting operations etc.

Digiweb
Blanchardstown Dublin

Client: Digiweb
Value: €400,000

Winthrop Scope:  Mechanical & Electrical services Installation with builders works
M & E Consultant: Tobin Consulting Engineers
Main Contractor:  Winthrop Engineering

Description of Works:
Winthrop Tendered and secured the full Scope for the upgrade and fit-out of an existing Data Hall.

Key Point :
All works were carried out in a live data center facility, and strict co-ordination was required with the client technical & facilities management team to ensure all service transitions were carried out with no impact on normal operations.