

# EOIN DULLAGHAN

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DOB

01/14/1989

## SUMMARY

Results-oriented Mechanical/Manufacturing Engineer with a solid foundation in analytical and computational problem-solving, complemented by hands-on laboratory and industry experience. Accredited by Engineers Ireland, I bring a proven ability to lead cross-functional teams and manage complex engineering projects from concept through execution.

With a strong track record in project management, I excel at planning, coordinating, and delivering initiatives on time and within budget. My experience in the medical device industry has equipped me with deep technical knowledge and a keen understanding of regulatory compliance, risk management, and quality assurance.

I am a proactive leader with excellent communication skills, known for meticulous attention to detail and a commitment to continuous improvement. I thrive in dynamic environments and am passionate about driving innovation, optimizing processes, and aligning engineering efforts with strategic business goals.

I am now seeking an engineering management opportunity where I can apply my technical expertise and project leadership to make a meaningful impact and help organizations achieve operational excellence.

## EDUCATION

Dublin Technological University  
Dublin, 2012-2015  
Ireland.

### **BA Honors Degree Level 8** **Manufacturing Engineering.**

**Subjects module titles:** Control Engineering, Engineering Mathematics, Materials, Manufacturing Processes, Mechanical Systems Design, Design Projects, Thermofluids, Quality and Reliability, Thermodynamics, Fluid Mechanics, Tool Design and Metal Forming, Manufacturing Systems, Materials Properties and Process, Design and Team Building Projects

Dublin Technological University  
Dublin, 2007-2010  
Ireland.

### **BA Ordinary Degree Level 7** **Mechanical Engineering**

Subject module titles: Applied Mechanics, Control Systems, Mathematics Computing, Engineering Mathematics, CAD, Workshop Processes, Manufacturing Technology,

## **EXPERIENCE**

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### **[2024 to present] Zoll Medical, Deerfield, Wisconsin**

#### **POSITION: MANUFACTURING ENGINEER**

Support all activities relating to ZOLL Medical product production. This includes: daily manufacturing and test support, process and yield improvement, quality and cost improvements, floor layout, New Product Introduction, process definition and documentation. No direct reports.

#### Key Responsibilities:

- Daily production support, tooling and fixture problems, training personnel, providing technical support to purchasing and materials.
- Provide project leadership and participate in projects for process improvements, root cause investigations, implementation of corrective/preventative actions, cost reduction activities, new product releases/enhancements, capital investments, and other long term project activities.
- Manage weekly meeting to review manufacturing and quality data

### **[2022 to 2024] WAEV INC/TAYLOR DUNN MANUFACTURING, ANAHEIM CALIFORNIA**

#### ***Mechanical Engineer – Waev Inc. (Tiger GSE Division)***

Led the design, development, and launch of innovative automotive components and systems for ground support equipment (GSE), delivering end-to-end engineering solutions from concept through production. Collaborated cross-functionally with sourcing, purchasing, operations, and executive leadership to ensure alignment with strategic goals and manufacturing capabilities.

Materials, Instrumentation, Management, Communications, Professional Development, Process Systems Analysis, Fluids, and Electronics.

#### **KEY SKILLS**

- SOLIDWORKS
- INVENTOR
- COMPLEX MECHANICAL DESIGN
- KNOWLEDGE OF DFA, DFM
- MRP SYSTEMS
- ROUTINGS
- MANUFACTURING PROCESSES
- WELDING
- GR&R
- FMEA
- ROOT CAUSE ANALYSIS
- COSTING
- COMMUNICATION
- REPORT WRITING
- VALIDATION
- 6 SIGMA
- PROJECT MANAGEMENT
- MS APPLICATIONS
- CNC PROGRAMMING
- TECHNICAL WRITING
- MS NAVISION DYNAMIC
- PROCESS CAPABILITY STUDIES
- CAPITAL INVESTMENT ROI
- LASER SYSTEMS
- SHEET METAL DESIGN
- GD&T
- 5S IMPLEMENTATION

### Key Responsibilities:

- Engineered new vehicle components based on detailed specifications, overseeing prototyping, testing, and transition to full-scale manufacturing.
- Managed project timelines and charters for critical engineering initiatives, ensuring flexibility to support production demands.
- Conducted FMEA and applied root cause analysis tools (e.g., Fishbone Diagrams) to identify and mitigate design and process risks.
- Created detailed technical drawings (DWGs) for vendor manufacturing, addressing in-house capability gaps.
- Restructured entire vehicle BOMs to enable real-time inventory consumption tracking, improving material planning and production flow.
- Developed and implemented SOPs to enhance production line efficiency and consistency.
- Maintained accurate documentation of development processes and cost disclosures for executive stakeholders.

### Technical Support (Dual Role):

- Provided field support and warranty resolution using Salesforce, improving response times and customer satisfaction.
- Authored service bulletins and created comprehensive manuals (Parts, Service, Operators) for Tiger 40G and 40L platforms.
- Coordinated with subcontractors and customers to resolve technical issues and deliver tailored support solutions.

### Key Achievements:

- Designed and launched the Tiger Repower GSE Tow Tractor Kit—a complete product solution.
- Developed universal in-tank fuel delivery system to prevent vapor lock on Kubota WG250G engines, adopted by major clients including FedEx and UPS.

### AWARDS

- EMPLOYEE OF THE MONTH TWICE AT SARIS CYCLING GROUP
- BLUEACRE TECHNOLOGY OVERALL WINNER OF BEST COMPANY IN IRELAND 2019 IN BOTH MANUFACTURING AND R&D

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- Engineered electric motor mounting bracket to improve pinion angle and reduce premature bearing failure.
  - Led R&D for EM park systems and redesigned steering assemblies for improved performance and reliability.
  - Temporarily assumed Production Supervisor responsibilities for 7 months, balancing leadership and engineering duties.
  - Overhauled BOM structures for Tiger 40G and 40L platforms in the MRP system, streamlining material consumption and work order transitions.

**[2021- 2022] SARIS CYCLING GROUP**  
**MADISON, WISCONSIN**

***POSITION: MANUFACTURING ENGINEER***

Supported the design, development, and production of cycling products by collaborating with mechanical designers, optimizing manufacturing processes, and leading continuous improvement initiatives across engineering and operations.

**Key Responsibilities:**

- Organized and maintained BOMs using Navision ERP system to support accurate inventory and production planning.
- Assisted mechanical designers in product development and design reviews, including DWG evaluations.
- Improved assembly processes for large bike racks, enhancing efficiency and reducing cycle times.
- Conducted ROI analyses for new equipment investments (e.g., BLM Tube Laser, Haas ST25 with robotic loading, Ecoat and Powder Coat lines).
- Enhanced CNC Haas programming and tooling strategies to improve machining performance.
- Troubleshoot press machinery and robotic weld systems to minimize downtime and improve reliability.

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- Designed and adapted production line layouts for flexibility, including line clearance and reboot procedures.
  - Led pilot builds for new products, validating BOM accuracy and component availability prior to launch.
  - Developed SOPs for production processes, including PPE usage and tooling methods.
  - Trained staff on new product assemblies and complex component handling.
  - Designed go/no-go gauges to improve quality control and reduce rework on high-cost components.
  - Created SOPs for refurbishment workflows to address recurring product issues.
  - Communicated with domestic and international suppliers to coordinate sourcing and resolve technical challenges.
  - Facilitated and led multiple Kaizen events to improve shipping, receiving, and production floor layout.

**Key Achievements:**

- Twice awarded Employee of the Month for outstanding contributions.
- Designed weld fixtures that doubled assembly capacity by optimizing footprint and enabling multi-part assemblies.
- Engineered custom press tools (form, stamp, twist) to support new product lines.
- Delivered ROI analysis for new paint line implementation.
- Played a key role in launching three new products, with two additional releases scheduled for early 2023.
- Developed work instructions and cycle times for new assemblies, and trained staff on complex builds.
- Completed Arc Flash safety training and CPR certification.

**[2017- 2020] BLUEACRE TECHNOLOGY ,  
DUNDALK, CO. LOUTH IRELAND**

***POSITION: MECHANICAL ENGINEER***

Medical Device Manufacturer

The company was ISO9001 and ISO13485 accredited.

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Design and Fabrication of Laser marking/drilling/ablation/cutting machines for the medical device industry to customer specifications.

**Key Responsibilities:**

- CNC production of customer parts Via XYZ cnc machine software Siemens controller
- Maintaining and Drawing of specific components for customer machines via solidworks, Use of weldments extrusion, analysis software, complex shapes
- complete machine assemblies all had to be completed and submitted to PDM and customer folders
- Vast knowledge is medical grade materials such as stainless steel 304, 316, NiTi and Ti
- Designed XYZ stages for ECM machining, knowledge of designing stages with rotary axis
- Production management, Manager of 24/7 production line, Dealing with customers, shipping globally, setting up and maintenance of full scale production machines, Quality control, staffing allocations
- Maintaining the company QMS and developing SOPs for customer components. Conducted various FMEA studies on production and design types.
- Conducted validations on customer products which then had to be submitted for customer review.
- Trained staffed while implementing the company SOPs.
- Conducted many Capability studies and
- Validations of machines proving processes operate at 6 sigma
- Conducted validation PQs on processes for machines designed constructed within in the company
- Reviewing CAPA's and submitting CAPA's to be inspected by management. Nonconformance and deviations report writing

**Key Achievements**

- Overall winner of SFA awards and won best Manufacturer

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- Design of laser ablation system for Fort Wayne Metals
  - Design of Laser Marking Machines for Secure Medical
  - Mig Welder Certified
  - Forklift operator certified
  - Completed 6 sigma projects
  - Validation of Harmac Medical Laser Marking machine of Introducer and Catheters
  - Medical Device Projects (Synoste Bone Lengthening Project) (HumanEye Project) (DTIF ECM Project)

**[2007- 2012] Irish Defense Forces, Dundalk, Co. Louth, Ireland**

**POSITION: INFANTRY PRIVATE**

27<sup>th</sup> Infantry Battalion

**COMMUNICATION**

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- Excellent written and verbal communication skills
- Confident, articulate, and professional speaking abilities
- Empathic listener and persuasive speaker.
- Writing creative or factual
- Speaking in public, to groups, or via electronic media.
- Excellent presentation and negotiation skills

**LEADERSHIP**

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I believe leadership is a collaborative effort rooted in empowering individuals to perform at their best. The success of any team lies in harnessing the strengths of each member, fostering cohesion, and driving collective achievement. I lead from the front—motivating, guiding, and inspiring teams to reach shared goals while cultivating a culture of accountability and unity.

Throughout my career, I've consistently led engineering teams and project teams with a focus on clear

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communication, strategic direction, and mutual respect. My leadership style emphasizes adaptability, continuous improvement, and a hands-on approach to problem-solving, ensuring both team success and personal growth.

## **REFERENCES**

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[Available upon request.]

