Ola Werring

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Education

University of Bath, MEng Mechanical with Automotive Engineering (Hons) **2025 – 2030**
Integrated master's with a year in industry; available for a placement year from autumn 2027. Achieved a first-year average of **79.2%** (First Class)**.**

Ullern Upper Secondary School, Oslo **September 2020 – June 2023**
Norwegian upper secondary diploma (A-level equivalent), average 5.9 out of 6.0 across all subjects, STEM focus.

Engineering Projects & Experience

Suspension Design Engineer **October 2025 – Present**
Team Bath Racing Electric, Bath

- Own front and rear pushrod design, building on the team's composite research to move construction from steel to CFRP and cutting total pushrod mass from 1.482 kg to 0.419 kg (72%), while also designing the toe and tie-rod turnbuckles. Redesigned the pushrod shim clamp, lighter and with every bolt reachable with the rod fitted, cutting a shim change from over 30 minutes to five minutes.
- Built and own the parameterised CAD outboard suspension assembly, with every suspension member designed and integrated into it.
- Wrote a MATLAB load-calculation tool that resolves member forces and clevis shear and pull-out loads across the defined load cases, exporting to Excel for design iteration.
- Ran ANSYS Mechanical FEA on members and joints (static structural and eigenvalue buckling), iterating tube sizes and joint detail against load and packaging limits.
- Produced manufacturing drawings and build documentation for all suspension hardware and was selected as one of six members to represent the team at the 2026 British Grand Prix. Attended FSUK 2026 and FSG 2026, where I took part in scrutineering and the cost & design event, while assisting with build and event operations.

Engineering Intern **August 2026 – September 2026**
Van Amersfoort Racing, Test Team, Zeewolde (ongoing engineering internship, on site since 18 August; project values are VAR IP, withheld until completion pending senior management approval)

- Bespoke five-week internship on the test team, solely responsible for developing a build-ready design of a single-corner inertia brake-bedding dynamometer for F3, FREC and F4. Building on a prior intern's theoretical study, I reviewed it against the team's requirements, re-derived the core sizing, and expanded the scope to electronics, controls and thermal behaviour, giving a design intended to bring bedding in-house and off-track.
- Designed a fixed-inertia flywheel, one base disc stepped between the three categories by balanced bolt-on segment sets; sized by simulating car and rig response to braking torque across the bedding schedule to find the fixed inertia holding each stop's energy, sliding speed and time together, below the naive equivalent value because the rig sees no drag or rolling resistance.
- Tested the rejected architecture, replicating measured track practice, against on-track bedding telemetry in WinTAX; the data ruled it out, the rig runs a controlled supplier-form schedule, and the decision carries a written reversal trigger: rig-bedded sets against track-bedded sets, back-to-back.
- Specified the PLC-sequenced control and instrumentation architecture, with torque measured by two independent channels, that runs a bedding schedule in SAE J2522 form built from the manufacturers' procedures; designed to give repeatable, logged bedding with friction against temperature and pressure per stop.
- Derived the sizing chain end to end, tyre to flywheel, each result worked by hand and cross-checked against an AI-built numerical tool; CAD and FEA underway in SolidWorks. Specified the safety architecture, hard-wired and independent of the control system, to Machinery Directive 2006/42/EC and EN ISO 13849-1.
- More details at olawerring.com/dynamometer

Mechanic Placement **April 2025**

AutoTech, Independent Porsche Specialist, Rakkestad

- Assisted with engine and gearbox work on Porsche 911s; manually set camber, toe and ride height for track use, verified steering symmetry and recorded baselines for repeatability.

Trackside Engineering Intern **January 2025 – March 2025**

Mtech Competition, Porsche Carrera Cup, Stockholm

- Worked within a professional race team across full race weekends at the 6 Hours of Portimão and 6 Hours of Barcelona, covering practice, qualifying and race and shadowing the team principal and chief engineer.
- Assisted with tyre performance: measured I-M-O tread temperatures and hot pressures, ran bleed-downs and rotations, and fed results into the run sheet.
- Supported data acquisition, run plans, debriefs and garage operations including live refuelling, and built lap overlays and basic math channels in MoTeC i2 for engineering review.

Vehicle Engineering Cohort Project **February 2024**

Ferrari S.p.A., Maranello (virtual work experience)

- Owned the aerodynamics, battery-pack concept and e-motor selection in a multi-disciplinary team project covering vehicle dynamics, powertrain, aerodynamics and product management; took on the team lead role, and the team placed first and received a certificate of honours.

Computing Skills

CAD & FEA: Inventor, SolidWorks and SolidWorks Simulation, ANSYS Mechanical.
Programming & Data: MATLAB, Python, MoTeC i2, WinTAX, Excel.
AI-assisted engineering workflow: hand-first derivation, with AI-built numerical tools as cross-checks that must reproduce my hand results to proceed; source-traced project record in Notion (requirements, derivations, decision log with reversal triggers, parameter register with confidence tags, risk register) maintained through AI-assisted write-backs I approve; an error log covering the tools' mistakes as well as my own.
General: Microsoft Office (Word, PowerPoint) and Teams.

Work Experience

Substitute Teacher **August 2024 – June 2025**

Ullern Upper Secondary School, Oslo

- Taught A-level equivalent maths and physics sixth-form classes; explained complex material clearly and designed practical activities that linked theory to real engineering.

Founder & Ski Instructor **2022 – 2024**

Self-employed, Oslo

- Founded and ran a private ski-instruction and ski-preparation business for over two years.
- Taught lessons and prepared skis for clients while managing bookings, pricing and customer relations, which built my organisation and management skills.

Activities & Interests

Motorsport. Keen sim racer and track-day driver, my main hobby; track driving has taught me precision and composure under pressure, and I follow motorsport engineering closely.
Alpine skiing. Competed through my youth and currently ski for the university team; years of training built discipline and resilience.
Football. Grew up playing and still play for the MechEng football team. A team sport that keeps up my teamwork and communication, whilst having fun with my fellow engineers.