

Resume

Sven Solot

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RESUME SUMMARY

MSc Precision Mechanical Engineering student at TU Delft with a focus on product architecture and mechanism design. Passionate about consumer technology and integrating complex mechanical functionality into user-friendly designs. Seeking a 3-month internship to apply skills in CAD, prototyping, and precision manufacturing.

EDUCATION

University of Cape Town, South Africa

BSc Mechanical and Mechatronics Engineering

GPA: 78/100

Graduated: April 2025

Delft University of Technology, Netherlands

MSc Mechanical Engineering

Expected: June 2027

Relevant Coursework: System Design, Product Design, Mechatronic systems, Embedded systems, Stress Analysis

Awards & Honors: Dean's List for 3 consecutive years

ACADEMIC PROJECTS

Compliant Rowing Mechanism

- Designed a compliant mechanism for a rowing device, utilizing flexible structures to reduce part count and wear.
- Developed a "path generation" prototype to mimic realistic rowing ergonomics for user training.
- Solved complex geometric constraints to package the mechanism within a limited volume.

PROFESSIONAL EXPERIENCE

Energy Partners, Cape Town, South Africa

Vacation Work

June 2024–July 2024

- Collaborated with thermo-fluid experts to analyse electricity usage data and identify energy savings opportunities.

EXTRACURRICULAR ACTIVITIES

Bishops Diocesan College, Cape Town, South Africa

Rowing Coach

Jan 2023– March 2025

- Coached learners in the u17 and u18 category
- Emphasized the importance of well-rounded student athletes

SKILLS

- Research & analysis
- Structural analysis
- Coding in Python and Java
- Computer aided design (SolidWorks, OnShape)
- Comsol Multiphysics
- 3D Printing