Lucas Brennan

Biomedical Engineering Intern

Biomedical engineering senior at the University of Minnesota, graduating in May 2027, on a fall co-op with a catheter manufacturer. Runs verification testing, drafts protocols under design controls and models parts in SolidWorks, with 120 catheter samples tested this term. Analyzes test data in MATLAB and Python and works inside an ISO 13485 quality system.

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EXPERIENCE

Biomedical Engineering Intern

06/2026 - Present

North Loop Medical Devices — Minneapolis, MN

Co-op on the R&D team of a 250-person maker of vascular access catheters.

- Run tensile and burst verification testing on **120** catheter samples and record results under ISO 13485 procedures.
- Model a revised luer fitting in SolidWorks with GD&T callouts, reducing the assembly from 4 parts to 3.
- Analyze pull-force data in MATLAB and Python, flagging 2 lots that missed specification before release.
- Draft test protocols and reports for the design controls file, each reviewed and signed by quality engineering.

Undergraduate Lab Assistant

09/2024 - 05/2026

University of Minnesota, Department of Biomedical Engineering — Minneapolis, MN

Part-time teaching lab job, 10 hours a week during the school year.

- Prepared bench setups for **6** weekly biomaterials lab sections serving about 90 students.
- Calibrated force gauges and pipettes monthly, keeping all 24 student stations within tolerance.
- Graded lab reports and held office hours on design of experiments and basic statistics.
- Assembled 90 tissue mechanics kits each term, cutting setup time per lab section by 15 minutes.

SKILLS

Verification Testing
Design Controls
SolidWorks
MATLAB
Python
ISO 13485
GD&T
Design of Experiments
Technical Writing
Attention to Detail

EDUCATION

Bachelor of Science

05/2027
University of Minnesota
Minneapolis, MN
Biomedical Engineering

CERTIFICATES

Certified SOLIDWORKS Associate (CSWA)

03/2026
Dassault Systèmes