Colton Bell-Cormier, PMP

Senior Product Developer | Advanced R&D | Prototyping and Testing
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PROFILE

Product developer with an aerospace engineering degree and a lifelong habit of building things. I lead advanced R&D for lacrosse at Bauer Hockey, taking ideas from first concept through prototyping, testing and into production across helmets, protective equipment and sticks. I do my own modeling, FEA and generative design, build in the workshop, and work closely with suppliers in North America and Asia.

EXPERIENCE

Senior Product Developer, Advanced Lacrosse
Jun 2024 – Present

Bauer Hockey | Cascade Maverik Lacrosse

- Lead the advanced R&D pipeline for helmets, protective equipment and sticks on a 2 to 10 year horizon: finding the problem, concepting, prototyping and testing before handing off to inline development.
- Build prototypes in the workshop with 3D printing, mold making, silicone casting, foam molding and thermoforming, supported by my own solid modeling, FEA and generative design.
- Designed helmet chin cup, retention and fit mechanisms, and reduced helmet part count to cut assembly time.
- Develop test methods and fixtures for new materials and processes, including environmental chamber, hot and cold conditioning, and adhesive bonding tests.
- Manage a matrix team of 8 designers, engineers and developers; grew advanced projects released to inline from 1 to 2 a year to 3 to 6 a year.
- Chair quarterly alignment sessions for about 20 stakeholders and work on-site with suppliers in Asia every year.

Product Developer, Lacrosse Sticks
Jun 2023 – Jun 2024

Bauer Hockey | Maverik Lacrosse

- Delivered the inline stick line from brief to launch across metals, polymers, composites and textiles.
- Launched Force Tech, a topology-optimized head platform with 10 to 25% better strength-to-weight and durability, and the first 3D printed production part in lacrosse: a compressive ball stop held by mechanical fit instead of adhesive.
- Led the injection mold transition from a US to an Asian supplier, cutting tooling cost and lead time by about 50%.
- Developed the Degree material, with 20%+ gains in stiffness and durability in hot, humid conditions.
- Certified women's lacrosse sticks to NFHS, US Lacrosse and NCAA specifications.

Engineering Lead, Lacrosse Sticks
May 2022 – Jun 2023

Bauer Hockey | Maverik Lacrosse

- Built the stick testing framework from the ground up; the protocols are still in use across the organization.
- Introduced Ansys FEA, topology optimization and Fusion 360 generative design into the development process.

Document Coordinator, PLM Migration (part-time)
Sep 2020 – Aug 2021

ProSlide Technology

- Hired back after my internship to lead the migration of the engineering document library to a new PLM platform, setting drawing release and configuration management standards.

Product Development Engineering Intern
Jan 2020 – Aug 2020

ProSlide Technology

- Assemblies and surface modeling in SolidWorks for waterslide development; ran materials testing, and ran the lab on my own through COVID.

SELECTED PERSONAL PROJECTS

- Personalized grips: gym and cycling grips from hand geometry capture and parametric lattice design, printed in TPU with a slicer I wrote for them.
- CoreXY 3D printer, rally car build, motorcycle restorations, and a micro flapping-wing flyer (university capstone).

SKILLS

CAD: SolidWorks, Fusion 360, Creo, Onshape, AutoCAD

Simulation and design: Ansys FEA, nTop, topology optimization, generative design, DFM

Making: 3D printing, composite layup, mold making, silicone casting, foam molding, thermoforming, laser and vinyl cutting, cut and sew, basic CNC milling

Testing: Test method and fixture design, mechanical and environmental testing, high-speed video, motion capture, certification (NOCSAE, ASTM, NFHS, NCAA)

Program: PMP, critical-path scheduling, risk registers, FMEA, stage gate, supplier development

AI: Claude and Claude Code; member of Bauer's AI committee

EDUCATION AND CREDENTIALS

B.Eng. Aerospace Engineering, Carleton University (Structures, Systems and Vehicle Design)
2017 – 2022

PMP (PMI, 2026) • P.Eng. in progress (PEO) • Named inventor on 2 provisional patents assigned to Bauer Hockey