

# Jonathan Ernster

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## EDUCATION

CARNEGIE MELLON UNIVERSITY, TEPPER SCHOOL OF BUSINESS

Pittsburgh, PA

*Master of Business Administration – MBA*

5/26

- Concentrations: Technology Strategy, Finance, AI in Business
- Club Leadership: VP of Defense, Aerospace, Robotics & Tech Club. Founder of Tepper AI Club. President of Wine Club.
- Honors: Tepper MBA Merit Scholarship

UNIVERSITY OF COLORADO

Boulder, CO

*Bachelor of Science in Civil Engineering*

12/13

- Leadership: VP of Engineers Without Borders, 2013; led water projects for 5K+ people in Peru, Galapagos, and Nepal
- Memberships: American Society of Civil Engineers, Associated General Contractors, Humanities for Engineers
- Study Abroad: Buenos Aires, Argentina, Fall 2011

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## EXPERIENCE

HONDA

Pittsburgh, PA

*CMU Corporate Startup Lab Fellow*

8/25 – 12/25

- **Robotics:** Led weekly presentations for Honda's CTO and R&D team on go-to-market commercialization strategy

AMAZON

Boston, MA

*Operations Manager Pathways Intern*

5/25 – 8/25

- **Root Cause Analysis:** Identified two main process gaps; ran pilot study and retrained 35 associates and area managers. Increased on time delivery success by 42% and influenced national procedural changes
- **Analytical Modeling:** Produced full diagnostic readout for all East region delivery stations. Coded models on data from 99 stations, 250M packages, and 15 metrics showing optimal volume share of package types in stations
- **Workflow Automation:** Developed a daily alert that notifies managers of timing thresholds and live dashboards, improving visibility of high value packages and bridged prior day misses to prevent repeat delivery failures

EPS GROUP, INC. (Civil Engineering Firm)

Phoenix, AZ

*Project Engineer*

6/21 – 6/24

- **Strategic Solutions:** Designed and drew engineering plans for 20+ housing developments with team of managers and technicians, improving land use with sustainable design and cost efficiency for contracts totaling \$15M
- **Engineering Calculations:** Developed interlinked hydraulic models and simulations for 10+ projects using hydrological data and standard calculations to provide insights for client decision making, advancing project delivery
- **Risk Management:** Initiated design proposals to city governments and regulators to secure approvals for city planning initiatives, ensuring compliance, risk mitigation, and public safety for subdivisions of 1K+ homes
- **Change Management:** Implemented software integrations of legacy software, decreasing computation time by 50% and enabling agile responses to evolving client budget constraints in unpredictable market conditions

DENEUE CONSTRUCTION SERVICES (General Contracting Firm)

Denver, CO

*Senior Project Engineer*

6/16 – 6/21

- **Leadership:** Directed 80+ subcontractors over 5 years in affordable housing, mixed use, and luxury condominium projects. Delivered \$150M in work and helped the firm rank among the region's fastest growing companies
- **Contract Negotiation:** Closed \$3K to \$3M deals negotiating cost reductions and operations strategies to streamline project execution. Initiated coordination meetings to drive process alignment and assign scopes of work
- **Entrepreneurial Spirit:** Launched digital transformation of management tools, creating new operating procedures for 5 projects, allowing for enterprise growth, real time analytics, and adoption across entire project portfolio
- **Talent Management:** Mentored 3 new hires and led monthly best practice workshops and tool training for coworkers at equal level and below, improving team productivity and brand consistency

ADDITIONAL EMPLOYMENT: Three contract positions involving land development and urban design

1/14 – 5/16

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## SKILLS & CERTIFICATIONS

- Certifications: Certified Project Management Professional (PMP) and passed the Professional Engineering (PE) exam
- Technical Skills: AutoCAD, Python, R, Java, SQL, Tableau, variety of AI tools, financial modeling, and data analytics
- Citizenship: US & Luxembourg passport. Legal right to work in all US and EU locations

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## INTERESTS & AFFILIATIONS

- Case Competition (2025): Organizing CMU **Space Innovation Challenge** sponsored by Blue Origin
- International Development (2016): Paul Polak Enterprises, facilitated \$400K fundraising for social innovation in India
- Entrepreneurial Initiative (2014): Founded LLC for land development engineering design services