



**William Burton Heath, MS CPE
Senior Ergonomist**

EDUCATION

NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC

M.S. Industrial Engineering, 2012 • GPA: 3.9/4.0 • Human Factors and Ergonomics Concentration • National Institute of Occupational Safety and Health Fellow • Thesis: An Assessment of Perceived Risk of Extension Ladder Set-Up Angles and Safety Label Effectiveness

NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC

B.S. Industrial and Systems Engineering, 2009 • GPA: 3.8/4.0 • Summa Cum Laude • Edward P. Fitts Endowed Scholar • University Scholars Program • Alpha Pi Mu • Human Factors and Ergonomics Society • Institute of Industrial Engineers

WORK EXPERIENCE

The Ergonomics Center, Edward P. Fitts Department of Industrial and Systems Engineering, North Carolina State University, Raleigh, North Carolina

Senior Ergonomist, September 2021-Present

- Provide comprehensive ergonomics services (i.e. program development, risk assessment, job analysis/design recommendations, training, team development, guideline development) to clients and member companies/organizations.

HUMANSCALE, New York, NY & Raleigh, NC

Associate Ergonomist III, 2016-2021

- Facilitated ergonomics training, public seminars, assessments, audits, and program development workshops for over 250 clients worldwide, generating \$1M in revenue
- Provided expertise and guidance to key stakeholders responsible for the design of new ergonomic products
- Conducted industrial ergonomic evaluations in warehouse, manufacturing, and laboratory environments using tools such as RULA, REBA, NIOSH Lifting Equation, and Snook Tables
- Served as ergonomic advisor to sales representatives, educating key customers and dealers on ergonomic concepts and principles
- Taught certification courses in office ergonomics and manual material handling across the U.S.
- Led the development and enhancement of company-wide digital assessment tool

VOLVO GROUP TRUCKS, Greensboro, NC
Manufacturing Project Manager, 2013-2015

- Delivered all manufacturing related project quality, cost, and safety targets on time and on budget, resulting in expected on-schedule 2016 production for over 15,000 trucks annually
- Led 15-member cross-functional team, delegated and managed deliverables and \$1M in labor and capital costs
- Managed 4 manufacturing introblocks per year, each consisting of 150-200 small projects and a 50+ member team, resulting in increased sales, customer satisfaction, quality, safety, and cost savings
- Communicated and anchored manufacturing prerequisites and aligned new features to current plant processes

International Graduate Rotational Programme

- Selected for an international leadership program with 25 employees from across Volvo's global offices
- Conducted physical module ergonomic evaluations on an extended work assignment in Curitiba, Brazil
- Rotated through Volvo competency areas: industrial engineering, product documentation, manufacturing engineering, project management, virtual manufacturing, and plant operations

CERTIFICATIONS, SKILLS & ACTIVITIES

- **Certification:** Board of Certified Professional Ergonomics – Certified Professional Ergonomist (CPE)
- **Computer:** Microsoft Office, Visual Basic, MS Project
- **Statistics:** JMP, SAS
- **Design:** SolidWorks
- Humanscale Presidents Award Recipient, Eagle Scout