Fastway Engineering Founder & Managing Director Jim Shaw has over 16 years of high-level engineering experience and is a leading expert in computer aided design (CAD) finite element analysis (FEA), and computational fluid dynamics (CFD). As a consultant and a trainer, Jim Shaw has raised the bottom line of dozens of companies and enriched the careers and capacities of hundreds of students.

Jim began his career working for such companies as Northrop Grumman, Westinghouse, and Kodak on products ranging from industrial document scanners to nuclear submarines. Now at the helm of his own company, Jim provides consulting services and training for Fortune 500 companies, mid- and small-sized engineering firms, academic institutions, and CAD/CAE software companies. He positions his clients and his students at the forefront of digital design, by empowering them to become better designers. Jim is a natural troubleshooter and frequently works with clients who have encountered thorny issues late in the design process.

Jim's expertise in the major CAD/CAE software brands—including ANSYS, Autodesk, Onshape, PTC Creo, Simscale, and SOLIDWORKS—is widely recognized. He has worked directly with several major CAD/CAE software companies to develop digital learning content but maintains a software-agnostic approach as a trainer in order to select the best tools for his students' success.

Jim's consulting experience ranges widely in its nature and scope. He has helped a global electronics manufacturer accurately predict the reliability of mission-critical components in extreme environmental conditions. He has worked with various manufacturing companies to manage intellectual property and knowledge transfer during merger and acquisition integrations. By means of conjugate heat transfer and computational fluid dynamics, Jim helped a major aerospace company discover more effective materials for their products. He's provided mechanical design and analysis service to an automotive aftermarket manufacturer to meet stringent weight, stiffness, and durability goals. Jim has also employed FEA and reverse engineering techniques to help a respected manufacturing company introduce 3D printing as an approved manufacturing process.

Jim grew up driving stick shift around the hilly roads of New England and soon became a "gearhead". His first job in high school was working for a used car dealership, washing cars and helping the mechanics. This spawned his interest in mechanical engineering, entrepreneurship, and also fueled his obsession with auto racing. Jim holds a Bachelor of Science in Mechanical Engineering from the University of Pittsburgh, a Masters of Business Administration from Babson, and still likes to pretend that he'll cinch a Formula One title someday. Until that happens, you can reach him at jshaw@fastwayengineering.com.