

RESUME

ABHINAV KRIS BHASIN

Mechanical Engineer

Personal Info:

Phone:

765-476-3492

E-Mail:

abhinavbhasin@hotmail.com

Professional Summary:

Detail-oriented Mechanical Engineer with over 7 years of experience in Designing, Programming and Leadership. Seeking to leverage my engineering, project management and people coordination skills to develop my career as a successful and beneficial employee.

In addition to the industry experience, I also have experience with electro-mechanics/mechatronics work in a non-professional setting.

Technical Skills:

Microsoft Office (Word, Excel, Power Point and Access)

Advanced

RCS

Advanced

SolidWorks

Advanced

PTC Creo Parametric (Pro-E)

Intermediate

AutoCAD

Intermediate

Programming Languages (C, C++, Java & JavaScript)

Intermediate

HTRI

Experienced

MATLAB

Experienced

LabView

Experienced

Work Experience:

Genesys Technology Inc. – Irwindale, CA (August 2021 – Present)

Project Manager and Mechanical Engineer

- Responsible for bringing company's first product, The PIC Machine, to the market. This is a cash accepting machine that is installed at gas stations next to the pumps.
- Managed this project through the idea, design, prototyping, production, testing, and shipping phase. Successfully brought the product to market within a 1-year period, beating the 3-year deadline dictated by the investors.
- Currently working with customers & vendors for the installation of the product and have successfully installed the product at 20 locations throughout California.
- Responsible for building the service team and creating the service manuals for warranty & repair work of the product.
- Managed the team of software engineers responsible for building the operating system, user interface and cloud services for the PIC Machine. The system is Linux based and is using MySQL, Java, and JavaScript languages.
- Created the 3D models, assemblies and production drawings of the machine's structural frame and the electro-mechanical components used by the machine. Softwares used were Solidworks and EagleCAD.

Brask Inc. – Neela Site, Pearland, TX (February 2015 – June 2021)

Senior Mechanical Engineer (June 2017 - June 2021)

- Managed the entire lifecycle of my projects, from the conception at sales side to supporting the fabrication team to supervising testing at the quality control side. Also provided technical support to customers after shipment of project.
- Project management followed the Agile Methodology. Software used for project and time management was an Excel based – Brask developed workbook.
- Supervised the estimation engineering team. Responsibilities included creating team's assignments, managing due dates, and reviewing team' drawings & BOMs.
- Supervised the purchase and installation of a new 6 axis CNC machine and a new 10ft max diameter pipe roller. Achieving the company, a saving of an average \$100,000 per project from reduced labor, vendor, and logistics costs.
- Created RCS to Excel macros and automated workflows to increase the efficiency of bill of material creation by 30% resulting in an achievement of a record number, over 2000 quotes per year.
- Gave instructional and training classes to younger engineers joining the company.

Mechanical Engineer I/II (February 2015 – June 2017)

- Applied ASME, TEMA and API standards in addition to customer specifications to engineer the most cost-efficient heat exchanger designs.
- Performed stress analysis and thickness calculations on all components of the heat exchanger. Softwares used for calculations: RCS and Compress.
- Created production drawings for customer approval. After approval pushed drawings to the production team for manufacturing. Softwares used for drawings: SolidWorks and AutoCAD.
- Programmed proprietary micro-controllers to record thermocouple readings and control fluid valve openings. The programming basis of these micro-controllers is a dialect of C++.
- Worked with different types of metals, such as carbon steel, stainless steel, high nickel alloys, etc.

Education:

Purdue University – West Lafayette, IN (August 2010 – August 2014)

Bachelor of Science in Mechanical Engineering (Mechatronics Focus)