Dear Recruiting Manager,

Please accept this letter and the accompanying resume as an expression of my interest for the respective position in your organization.

I completed Masters in Mechanical Engineering at Northern Illinois University and I strongly believe that I can contribute effectively with the breadth of knowledge I gained through my education and work experience. My area of specialization in my Master's program is Vibrations and Computer Aided Design & Manufacturing. It includes Fundamentals of Vibration, Finite Element Analysis, PRO-E and ANSYS. I have also completed a Reliability Course and attended training for the same at Baxter health Care Corp.

My master's Project is to "Compute the damping properties of materials". It involves computation of fatigue life of a beam experimentally using various kurtosion levels. Similarly the fatigue life of the beam is calculated theoretically maintaining similar inputs. Finally the experimental and theoretical values of fatigue life are compared.

I worked at Baxter Reliability Lab as a research assistant. I have conducted various FMEAs, reliability tests such as Highly Accelerated Life Testing (HALT), CFD, Vibration test, Electrical Stress test, Humidity Test, Drop test etc. I am familiar with RELEX software which is extensively used in Reliability field. My role as an intern is to assist the project management team by performing multiple tasks such as functional testing, inspection, creating technical documents etc for various ongoing projects. I was also a team member of a KAIZEN which included training on LEAN Manufacturing.

I worked at National Technical Systems, a Testing, Inspection, certification gaint, as Manager, Engineering. I was working with a project team to set up a multi model testing and compliance lines. The line consisted of 4 major department models with more than 60 test variants hence one can imagine the complexity in setting up line ensuring no mistakes. I designed and fabricated fixtures for every line. I developed FMEAs, Engineering reports, new process of developing a triggering system for mistake proof issuance of materials and testing. I designed new test variants. Lead in planning NPIs, FMEAs, Test Driven Methodologies, Control plans, Work Instructions, TQ KPIs. I am proficient in the use of various solutions tools such as e.g., Risk Management, FMEAs, Finite Element Analysis, Process Modeling, Design of Experiments, 3D modeling and rapid prototyping, perform data analytics, Tableau, DMAIC, and SPC). I oversaw activities at different sites within the company for full qualification completions.

I worked at Netcom,inc, a Telecommunications RF Filter design and manufacturing gaint, as engineering quality. I lead the complete RF per Mil-std and Engineering quality activities from start to finish per IPC 9592 document as controlling document. Deployed new systems, new solutions, identified gaps, created FMEAs, SPC, Control plans, WI, design evaluations, reports, minitab models as part of product release in ISO 9001:2015. I deployed activities per AIAG & VDA FMEA Handbook FMEAs, IPC, JEDEC, IEC, automotive structural & electrical and medical standards. Worked towards calculating KIPs in production lines and integrating failures into NPIs. I designed and oversee manufacturing for test related activities, product specification sheets, product launches, initial design FMEAs, production line FMEAs to deployed solution at every station.

I would like to reaffirm my interest in working for this position. With a strong academic background that has emphasized analytical & problem-solving skills, and with the breadth of knowledge gained through my education and industrial experience, I strongly believe that I would be able to contribute effectively to the FMEA job role.

Thank you for your consideration. I look forward to your response.

Chaitanya Chitteti