

Project Summaries/Introductions for Mentor Matching

Format/Structure to follow:

→ Research Description:

- ◆ We are students at BHS in EDD...
- ◆ Project will be from now through April
- ◆ Here is our problem statement (Business)
- ◆ We are initially thinking _____ for a solution (be VERY general on this: ie: app, physical solution, new product, innovated product)

→ Letter of Introduction:

- ◆ Our team name is _____
- ◆ These are our group members: _____ (add bio info)

Example 1: BEAN

Research Description

We are students of Bartlett High School's Academy of Science, Technology, Engineering, and Math. A mandatory assignment of our Engineering, Design, and Development (EDD) course is a year long project that requires a group of students to engineer a solution to a problem of their choice, so from now up to April, we will be working on this. Here is our problem statement: According to the National Partnership for Safe Routes to School, the United States spends \$21.5 billion per year on school bus transportation at an average annual cost of \$692 per student transported. However, some of these students are not even taking the bus every single day. An increase in school bus routing efficiency could cut suburban and rural school district expenses of bus driver salaries and fuel usage. We are initially thinking that we could create an app, using the GPS function for points and routes.

Letter of Introduction

Our team name is Bean, named after the mighty legumes. These are our group members:

CB - I am good with technology and am eager to learn how to code.

AM - I play the flute in our school's band and also am a member of our school's girls volleyball team. I am excited to gain knowledge pertaining to the creation of apps with this opportunity.

EP- I enjoy being active in soccer, technology, and learning. I keep an open mind on opinions and feedback.

RP - I enjoy being on our school's drum line and playing piano in my free time. I am interested in the collaboration process that will occur throughout the entirety of this project.

Example 2: B-JAM

Research Description

We are students of Bartlett High School in Engineering Design & Development. Our Project is currently running and will go through April of next year. This is our Problem Statement: over 1.3 million people die and 20-50 million people are injured on an annual basis due to car accidents and around 3,000 of these accidents in the US are related to sun glare. There is a 16% higher risk of crashing during bright sunlight rather than normal weather. Recent surveys conducted upon the general population reveal that [statistic] are having problems with their current sun visor. We are initially thinking of a redesigned Sun visor for a solution.

Letter of Introduction

Our team name is B-JAM Industries. As students currently enrolled in a Project Lead the Way curriculum of the Academy of Math and Sciences at Bartlett High School, our goal is to resolve a certain problem which many people are currently facing in society. We intend to reduce car accidents occurring due to an excess amount of sun glare by creating a transparent sun visor in order to help block off sun rays while driving. Our Group members are B, A, J and M.

Hi, my name is B, I am a member of the Vex Robotics Club at Bartlett and I am a trumpet in the Marching Band. I enjoy the process of engineering and design; I have a good background in technology and science.

Hello, my name is A and I am a member of TSA (Technology Student Association). I am on the board for this club, so I play a large leadership role in it and I joined this club because I enjoy working with technology and problem-solving environments.

Hello, My name is M, I am a member of our School's Orchestra, Science Olympiad team and part of the Chess club, I enjoy mainly Mechanical Engineering and everything about it.

Hello, my name is J and I am involved in several clubs throughout school as well as tennis. In addition, I am a board member of BHS Math Club; along with my leadership position, I have been a part of this club due to my strong passion for math.

Example 3: PLN Innovations

Research Description

We are Juniors at Bartlett High School's Science, Technology, Engineering and Mathematics Academy currently enrolled in a course called Project Lead the Way - Engineering, Design and Development. The main project in this class will take place from now to April. Here is our business problem statement: Frequent travelers encounter issues while travelling with their carry on luggage due to susceptibility to theft, easy breakage and secure storage for electronics. According to a survey conducted by PLN Innovations, a group of high school engineering students, approximately 57% of carry on luggage bag users are unable to efficiently fit all of their belongings into their bag. We are initially thinking about an innovated luggage bag based on user needs.

Letter of Introduction

Our team is PLN Innovations. The team consists of PS, NT and LK.

PS - I am on the board for HOSA-Future Health Care Professionals and aspire to be a physician one day.

NT - I participate in many things, to name just a few, I am in our school's drumline, I am a member of Technology Student Association and Academy Student Council.

LK - Like N, I'm also a member of The Academy Student Council and The Technology Student Association, focusing on the competitive architecture events. In my free time, I play my ukulele and draw. One day, I hope to become an architect or psychologist.

We are all excited to collaborate with a professional on our project.

Example 4: JNP Incorporated

Research Description

Hello, we are students at Bartlett High School's Engineer Design and Development class where we are taking part in a group project that will take place from October 2nd through April. Here is our Problem Statement: Most Americans use an alarm clock to wake up, however, it disturbs the body's natural sleep cycle. According to Sleep Review magazine, 79% percent of people that have had bad wake up experiences lack in their ability to concentrate and perform daily tasks which is due to the ineffectiveness of their alarm clock. We are initially thinking of a way to innovate the alarm clock by utilizing more senses than just hearing for a solution

Letter of Introduction

Our group name is JNP incorporated, we based this name off of our first name initials.

These are our group members:

JT- I am a student that goes to Bartlett High School. I am a part of the STEM academy (Science, Technology, Engineering, and Math) and have always been interested in problem solving and consider myself a creative thinker. I am part of multiple clubs inside and out of school that dedicate numerous hours in volunteer work and giving back to the community.

NR- I am a senior at Bartlett High School. I enjoy working in a group to create new ideas that I can build and get hands on I've made many mini projects over my summers. I've been involved in many sports like football, volleyball and wrestling. I'm also involved in many clubs like SASA (South Asian Student Association), HH4K k-8 (home work help for kids k-8) and After The Face.

PB- I am a junior at Bartlett High School's STEM Academy , I enjoy doing group challenges that require teamwork and full focus which is why I am so excited to do this huge project. I am also a member of the Boy's Volleyball Team at BHS and take part in a club that teaches young elementary school students after school.