

# Senior Project Proposal

## Phase 2

Saved on 6/5/13

Student Name Jashan Chopra

Teacher Mrs. Reynolds

Period 5

### Directions

- Type your proposal in this template. Handwritten proposals will not be accepted.
- Complete your proposal with your mentor.
- Provide detailed answers as a bulleted or numbered list. The sections will expand as you type in more bullets and details. Do not limit your answers to the space shown.

### Project Description (taken from Phase 1)

What do you plan to do? Provide an overall description of your creation, event, service or exploration.

- I plan to design a watch roughly based off the watch that I wear.
- It will be built in Creo Parametric
- Each little piece will be a separate part, and will be assembled in the program.
- I will also make a 3D printed version that doesn't contain all the inside components.
- The 3D printed version will have a unique band that makes it wearable.
- The assembly pieces from the complicated version will be given textures and rendered, I will explode the assembly so all the small pieces are visible and rise out of the dial.
  - o This explosion will be made into an animation in Autodesk Maya and turned into a gif.

What will your final product be?

- The final product will be a slideshow and presentation of the piece in Creo Parametric and Autodesk Maya, then I will show the 3D printed version of the watch.

### Action Plan

Your action plan should indicate all steps, activities, deadlines, and meeting dates necessary for a timely completion of your project. You will create target deadlines and readjust your action plan as necessary. Your steps should be specific and measurable.

Steps	Target Dates
1. Main Body	DONE
2. Watch Band	Jan 14
3. 3D Print	Jan 21
4. Final details / Completely Finished	Jan 28
5. Glass Top + Texturing of body	Feb 4
6. Watch Movement (all pieces finished)	Feb 25
7. Assembly of Movement	March 4
8. Texturing	March 11
9. Animation	March 18
10.	

## Grading Guide

Using your mentor's expertise create three or more criteria for grading your project. When applicable provide industry standards. Provide enough guidance so that a person with no background in your topic can evaluate your project. Write precise and measurable criteria.

- **Precise** — vague words (good, professional, stuff, etc) require clarification.

For example: *"Paint professionally" requires more detail. Describe what "professionally" would look like.*

Revised: *Paint with undetectable patching & prep work, two coats, even color, no splatters, and crisp edges.*

- **Measurable** — (quantity, duration, size, level, etc)

For example: *"Memorize & perform songs" needs measurements. Describe how many songs, difficulty level, and duration.* Revised: *Memorize and perform three, intermediate level, two-minute, country-western songs.*

1. Accuracy of the 3D printed version to the actual watch measurements, is the replica fairly accurate and does the watch band work consistently.
2. Quality of the CAD version, level of detail consistent with an actual watch, texturing looks finished and clean.
3. Smooth final animation for the parts, no faulty animations (such as collisions between pieces), not too long.

## Research Focus

What questions will guide your research? List 3-5 key questions.

1. What makes up the inside movement of a watch?
2. How can I optimize an animation in Maya do accurately represent time.
3. What watch band variants would work with 3D printing
4. How can I optimize textures to look real and not stretched, etc.
- 5.

# Project Budget

Item	Quantity	Unit Cost	Shipping	Subtotals
n/a				

<b>Total</b>	0
Amount to be paid by student	0
Amount to be paid by parent/guardian	0
Remaining Balance	n/a

**Please explain how you are going to pay your portion of this project**

• n/a

**If there is a remaining balance, how will that be paid for?**

• n/a

The **estimated expense** of the project will be **\$0**

The student and parent/guardian whose names are signed below accept full financial and legal responsibility for any cost or travel and the conduct of the student.

Parent Signature	Date
Student Signature	Date

# Mentor & Student Contract

**The mentor and student complete and sign this contract.**

This contract lists the expectations the mentor and student have for each other. It helps focus your meetings and provides direction. **Make a copy for the mentor and student. It will be needed later in the year.**

## Student Information

Student Name

Student Phone/email	English Teacher	Period
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Brief Description of Senior Project

How long have you known your mentor?

How did you find your mentor?

## Mentor Information

Mentor Name

Work Phone	Home Phone (optional)
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Email

Addresses

City	State	Zip
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Please list your qualifications and experience (minimum of 3 years) in the subject area of the student's project:

If the project involves organizing an event, the mentor must be at the event to supervise and evaluate. This is very important. If it is impossible for the mentor to be at the event, the student must find a staff member to fill in.

In the space below, please list a minimum of four responsibilities both of you agree to fulfill:

Student Responsibilities	Mentor Responsibilities
1.	1.
2.	2.
3.	3.
4.	4.

All written work must be appropriate for high school and be free of profanity, use of drugs, pornography and use of teacher names.

I agree to mentor this student on the required Senior Project. I agree to meet (communicate with) the student a **minimum of 2-3 times a month** in order to monitor the progress of the project. We both agree to fulfill the responsibilities as listed above.

Mentor  
Signature

Date

Student  
Signature

Date

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