

# Using Falmouth Adversity to better myself

COMP150 - CPD Report

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## 1 Introduction

I meant University.

One day, I'd like to be the lead of an indie game company. First, I need to put my work where my mouth is. Then I must put my mouth out there.

I want to someday create a company around an initial game prototype. Bringing my possible ideas to life is my goal during my time here, and if I can become so confident, to build a team around the better ones.

Here lies personal areas I must improve to do it, and traits of the better person to climb out of all this. Like a zombie.

## 2 Skills to improve

### 2.1 Affective - Social Anxiety and Reaching Out

In the professional industry, it is virtually impossible to be noticed when hidden in a closet. Unless that closet is in an inappropriate location, such as the M27. Making

contacts is necessary for finding work, so avoiding people is counter to making a mark as an industry leader (and all other positions).

I delay tasks that involve initiating contact with people, despite wanting more. Ordering my DSA laptop in October was one example: this required a few phone calls; ultimately, I completed the process by January. My anxiety changes my priorities despite the positive investment, such as the ability to study anywhere. Sometimes I'll instead be 'productive' by working on assignments. Since it's more comfortable to overwork than to pick up a phone, my anxiety is regularly mistaken for masochism.

I will read 'The Shyness & Social Anxiety Workbook' [1] by M. Antony and R. Swinson. It challenges social anxiety through proven psychological techniques. For at least five days per week, in the evenings before I sleep, I'll read at least six pages, aiming to acknowledge and reduce my avoidance habits. My current goal is to finish the book at this pace or faster, whilst employing any of its advice where comfortable.

## **2.2 Interpersonal - Being Inspirational**

I believe sharing exciting collaborative ideas is symbolic of a good indie team. Unavoidably, the creative lead position requires the ability to coordinate differing ideas.

During Unreal project meetings, few people expressed ideas, possibly for fear of impacting someone else's, or otherwise sparking conflict. As one who is often shy to speak out amongst differing ideas, I question whether there are no ideas, or if everyone's just suppressing them. We need inspiration either way, and I currently lack the charisma to inspire them with words.

But I want to spark their motivation, and demonstrate a possible creative vision at the same time. So before February, I'll compose four short music pieces for the Unreal game using LMMS. I'll make a new short theme proposal every Sunday from the 7th Jan until the 28th, fifteen seconds minimum, completing any that I like in my own time. I'll pitch them all in the following meeting.

I believe a great project is one that creatives enjoy working on, even in their free time. Hopefully by setting an example, they'll become more interested in putting their creations forward too, regardless of my charisma or quality of work.

### **2.3 Dispositional - Multi-tasking**

I'm bad at switching tasks. However, I believe extreme focus, rather than intelligent learning, led to my current programming skills, so I don't want to wipe out the habit entirely. But I'd like to incorporate the 'intelligent learning' part.

In Week 7, I spent hours writing my agile essay despite noting in Week 3 the importance of regular breaks. I placed full priority on it, neglecting other work or activities. I believe mismanaging priorities like that has become a bigger issue than overworking overall.

I must intelligently prioritise tasks based on the skills or productions conducive to furthering my creativity, not from my default focus. This is especially true because creative direction oversees a variety of domains, such as writing and art style. This makes it important that I exercise my skills in multiple areas simultaneously.

To practice managing multiple tasks, every Sunday I'll write a time-specific schedule of personal projects on my whiteboard. I'll create two tasks per week, giving each a minimal time target. One may be coding-related, but the other must not. The minimal time limit for each task may vary but must be an hour or more.

### **2.4 Cognitive - Class Shenanigans and Instantiation**

It was Week 5. In our `Object` class, I created a 'collision' attribute, declaring it as a default-initialised `CollisionParams` object. However, I quickly noticed that object instances were all sharing the same, modifiable `CollisionParams` object! Furthermore, if I initialised it in `Object.__init__` instead, inherited classes wouldn't create it.

So I made 'collision' optional, with my code ignoring it if it was `None`. My rationale was that if a programmer forgot to initialise it, their mistake would be obvious. However,

my ‘solution’ added bloating due to the if-statements. Retrospectively, the parent class should be initialised fully by every child class, using `super().__init__()`. I overlooked that, assuming it cumbersome, to the irony of the if-statements’ wrath.

Since I resolved that already, my new learning goal is slightly different, but related to similar practices. In the past, I avoided C++ virtual functions, because I avoided the new operator: it would conflict with my fast allocation tools. However, I recently embraced *new overloading*, making the switch possible. So in my upcoming C++ coursework, I’ll instantiate all my dynamically-allocated classes with some form of ‘new’, and I’ll use virtual functions for inheritance. I’ll tackle new, unfamiliar obstacles as they come, using my diary to record solutions.

## 2.5 Procedural - It’s not Broken until It’s Made (Prototyping)

During comp150, I wrote the collision system for Frontier. I obsessed over its precision, for two reasons: one, to exercise a full understanding of the math behind it; and two, I like precision. I’m happy with both; however, in a prototyping scenario, this is not necessary. I neglected the greater context: we just needed a functional demo. Only after Michael’s advice did I stop obsessing and finally prototype it with XY-aligned bounding boxes. This imperfection burnt my soul, but enabled me to work sooner on demonstrable mechanics that made the game look better in a shorter time.

This is still a regular habit of mine. So next time, when taking a user story, I’ll create a checklist of tasks to achieve the *literal* user story. This addresses **no details** beyond the user story provided; for example, ‘I want to fight an enemy’ would provide the ability to attack an enemy, but the enemy won’t attack back. Additional features must not yet be made. To enforce this, I’ll create an ‘Optional’ checklist on each user story I take, where I’ll suggest precision and features which could be explored in leftover time.

### 3 Recording Progress with the Diary

For some domains, I will measure progress with a weekly Google Docs diary, planned each Monday. See the Appendix for a template.

### 4 Conclusion

I have ambitious life goals, but regardless of whether I reach them, improving these skills will help me find my place in industry. The first step to managing approach anxiety is being aware of proven techniques, hence the book. To avoid overload, I'm taking a creative approach to the interpersonal domain rather than socially-oriented. For the dispositional domain, I'll force multi-tasking through scheduled practice. Cognitively, awareness of standard class constructs is necessary in professional C++. Finally, there will be stalls during production, which I will reduce with a minimalistic approach to user stories.

### References

- [1] M. M. Antony and R. P. Swinson, *The Shyness and Social Anxiety Workbook: Proven, Step-by-Step Techniques for Overcoming your Fear*, 2nd ed. New Harbinger Publications, 2008.

## 5 Appendix - Diary template

### Week 08-01-2018

#### Social Anxiety Workbook

*Current goal: To complete the Shyness and Social Anxiety Workbook*  
*Life goal: To reduce anxiety and make more sensible choices in spite of it*

**Pages read:**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
-	-	-	-	-	-	-

#### Unreal Game Music

*Current goal: To produce four songs to show to the team with hopes of inspiring them, whilst developing composing skills*  
*Life goal: To use my creativity to inspire teams*

<b>Time written (seconds):</b>	<length of the piece goes here>
<b>Self-review</b>	<miscellaneous points can go here>

#### Personal Project Schedule

*Current goal: To break focus at predetermined times and complete specific personal tasks*  
*Life goal: To become comfortable breaking focus and switching to new tasks without delay*

Task	Date	Time to work on it	Done? (explain)
Work on Genesis	Monday 8th 12:00	1 hour	No ('cause it hasn't happened yet)
Draw some supervillains	Monday 8th 15:00	1 hour	No ('cause my future self broke his ankle)

#### C++ project

*Current goal: To use only new and delete for dynamic class allocation in my next project*  
*Life goal: To demonstrate sensible and modern C++ practice where wanted (in this case, adhering to traditional class allocation and inheritance rules)*

<b>Challenges encountered?</b>
<Note here any obstacles involving classes, inheritance, virtual functions, etc>

Figure 1: Provisional CPD diary template