# **Assignment 5.3**

# **Risk management of 3 case studies**

# Case 1.3.1 An insulin pump control system

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| **Risk** | **Affected field** | **Description** |
| Staff turnover | Project | Creating an insulin pump control system needs experienced people to understand and implement. The project or system will be affected If any experienced staff leaves before the project is completed. |
| Management change | Project | Change of management will cause harm to the project as there will be new requirements and new or different priorities which will need to be fulfilled to complete the project properly. |
| Technology change | Business | The system requires an embedded system that uses sensors to detect blood sugar level and pump to inject calculated insulin dosage to the patients. If the underlying technology that was used to build the system changes or is superseded by new technology then it will affect the business. |
| Hardware unavailability | Project | As the system is for medical purpose, unavailability of hardware is going to affect the completion of the project. |
| Requirements change | Project and product | There will be a larger number of changes to the requirements than anticipated. |

# Case 1.3.2 A Patient Information System for Mental Health Care

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| **Risk** | **Affected field** | **Description** |
| Product competition | Business | If there are similar client-server based information management system available in the market, then these systems are competitors of the project and a risk to the business. |
| Management change | Project | Change of management will cause harm to the project as there will be new requirements and new or different priorities which will need to be fulfilled to complete the project properly. |
| Specification delays | Project and product | The system is to be accessed by several medical users such as doctor, receptionist, medical staff and nurses, examines etc. each user access point interface specification maybe different and is required on schedule in order to build the entire system. |
| Size underestimate | Project and Product | Underestimating the size of the system will create an issue for both project and product. The system should be able to support the number of patients and medical staffs if it increases. |
| Requirements change | Project and product | There will be a larger number of changes to the requirements than anticipated. |

# Case 1.3.3 A Wilderness Weather Station

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| **Risk** | **Affected field** | **Description** |
| Size underestimate | Project and Product | Underestimating the number of weather parameters to manipulate and the size of database is a risk that might affect both project and product of the wilderness weather system. |
| Technology change | Business | The system is a layered architecture software that includes several sub-systems which collectively helps to monitor the wilderness weather conditions. If the underlying technology that was used to build the system changes or is superseded by new technology, for example better sensors or instrument which can collect more precise data of weather parameters, then it will affect the business. |
| Staff turnover | Project | The system consists of smaller sub-systems that must be completed to deliver the entire project to the clients. Staffs working on any of these sub-systems are critical part of the project development. Leave of any experienced staff will cause risk to the project. |
| Hardware unavailability | Project | Unavailability of hardware is going to affect the completion of the project. |
| Requirements change | Project and product | There will be a larger number of changes to the requirements than anticipated. |