

SEng 360 - Assignment 1

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ID	Priority	Risk Description	Risk Category	Likelihood	Impact	Exposure	Risk response type	Risk response cost	Risk response description	Status
1	2/5	Non members avoiding liability for accidents or damage to the vehicle.	Fraudulent activity	0.7	0.5	35%	Transfer	\$125K	<p>1) Have users sign a contract passing the liability of damages onto them.</p> <p>2) Purchase vehicle insurance to reimburse any costs incurred</p>	Closed
2	4/5	Leak of customer routes, leading to tracking of drivers by malicious entities	Privacy protection	0.4	0.8	32%	Avoid	\$0	<p>1) Encrypt route data when storing into database and provide decrypt key only to the user</p> <p>2) Delete route data soon after the trip is finished</p>	Open
3	3/5	A hacker hacking into the car system and interfering with the operations of the vehicle functions	Criminal activity	0.4	0.9	36%	Mitigate	\$375K	<p>1) Make security a priority when designing the app and conduct extensive testing on known vulnerabilities before deploying.</p> <p>2) Have the cars run on multiple small networks instead of one big one. So if one network is compromised it would not cause much havoc</p>	Updated
4	3/5	Internal malicious actors get access to driver identity and payment info and potentially impersonate them.	Identity Theft	0.3	0.4	12%	Mitigate	\$100K	<p>1) Limit access to data to select employees and keep a list of those employees</p> <p>2) Keep logs of all access to the database on a separate server.</p>	Open
5	1/5	Intentional or unintentional	Criminal or terrorist	0.9	0.9	80%	Mitigate	\$1M	<p>1) Have strict and unambiguous</p>	Open

		tampering of vehicle parameters outside the safety standards by maintenance personnel	activity						<p>guidelines for drive parameter tunings.</p> <p>2) Implement an automated overlook, testing and safety evaluation system, which can't be manipulated by the maintenance personnel</p>	
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References

1. <https://physicsworld.com/a/how-to-hack-a-self-driving-car/>
2. <https://www.automotiveworld.com/articles/autonomous-cars-low-on-a-hackers-hit-list-for-now/>