

# Novel Movement Robot – Gate A

Ali Mganga, Cristian Ramos-Luna, Jason Kahn, Vision Aryal

## Mechanical Systems of NMR

Chassis

Geometry

Material

Connections

Construction

Actuators

Length

Material

Power/Force

Internal Mounts

Map of  
Electronics

Assembly

Documentation

Pictures

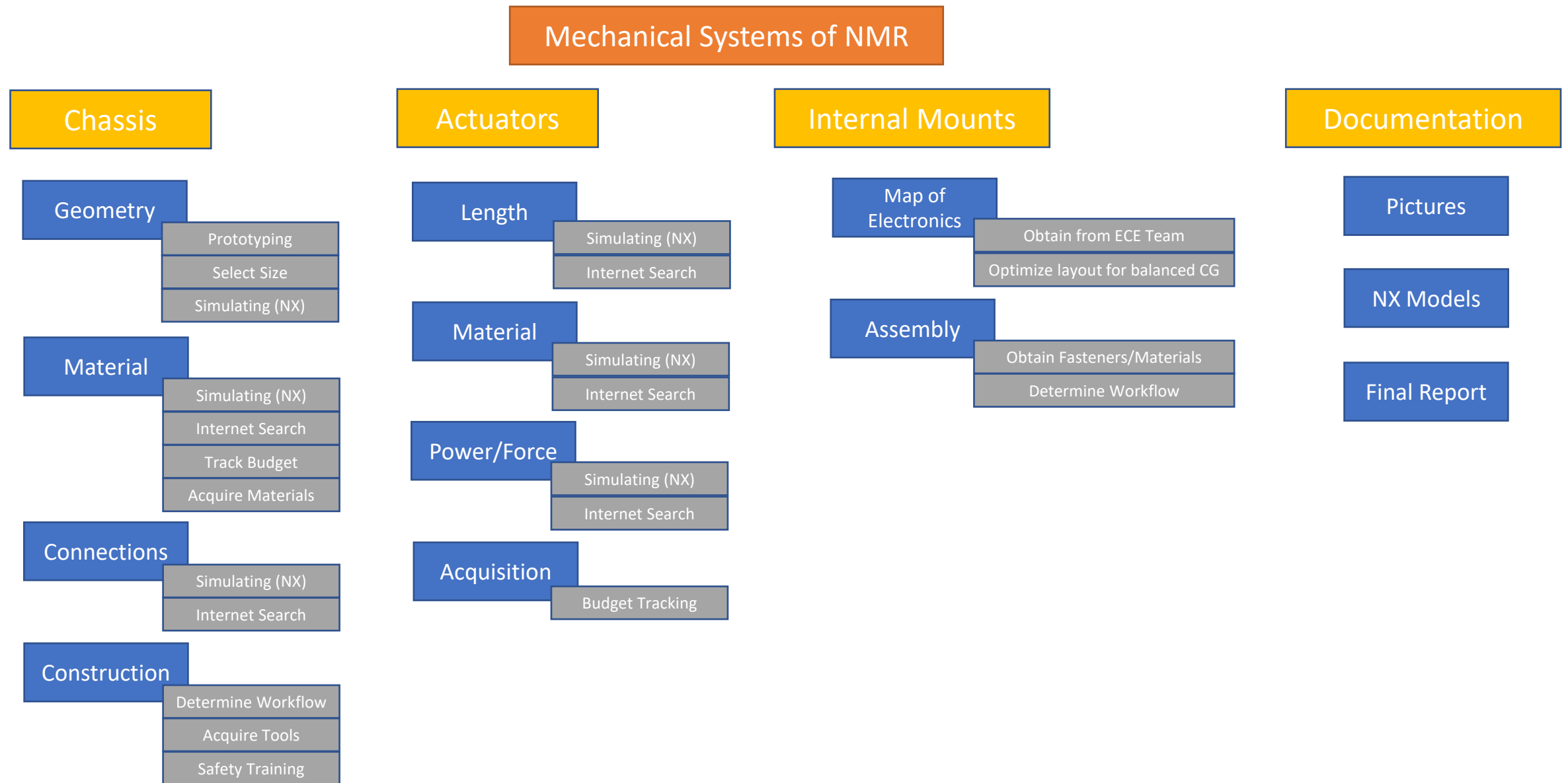
NX Models

Final Report



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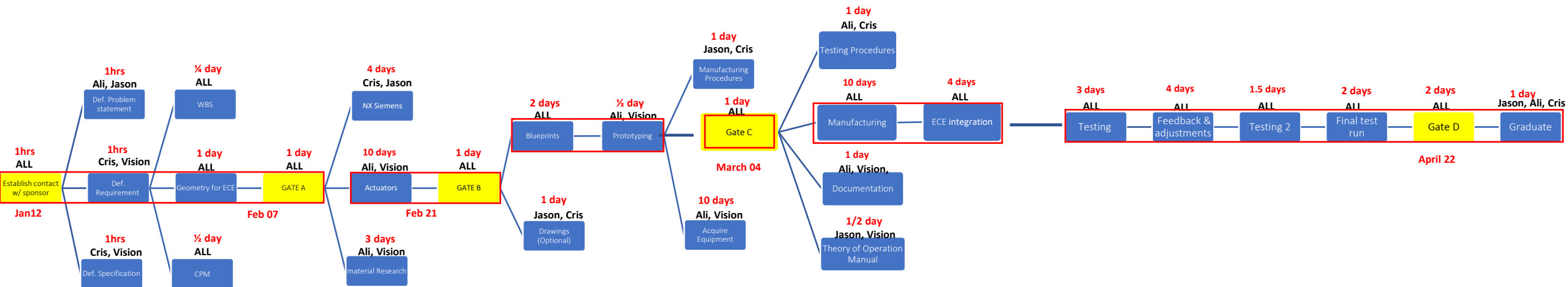
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## CPM of NMR



### JOB DISCRPTION

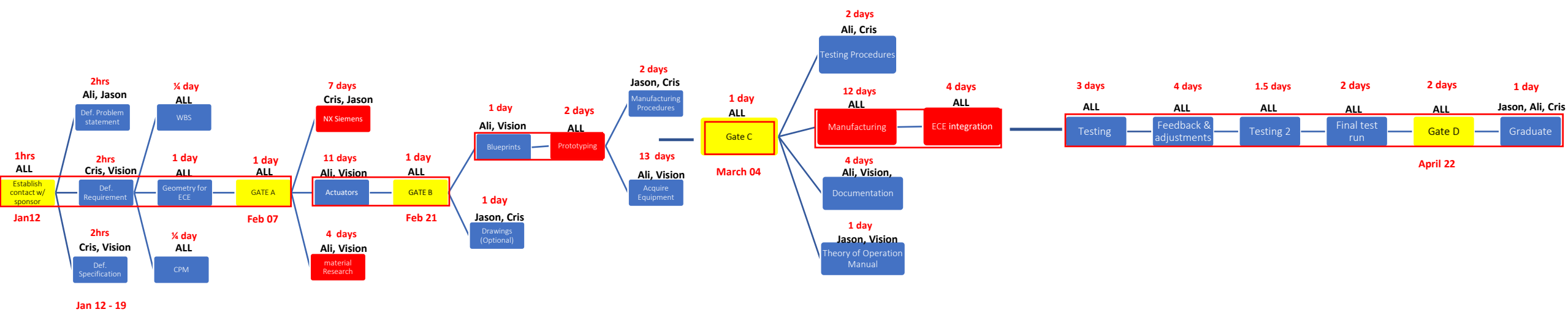
- Business days (Monday – Friday)
- Working hours (8hrs)
- Excludes vacation (March 5 – March 13th)
- Critical Paths are squared in RED
- Labor time: 534 hours = 66.75 business days
- Estimated cost: \$66,750



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## CPM of NMR (Missing member)



Red boxes indicate activities that will not get done in time if one member is lost.

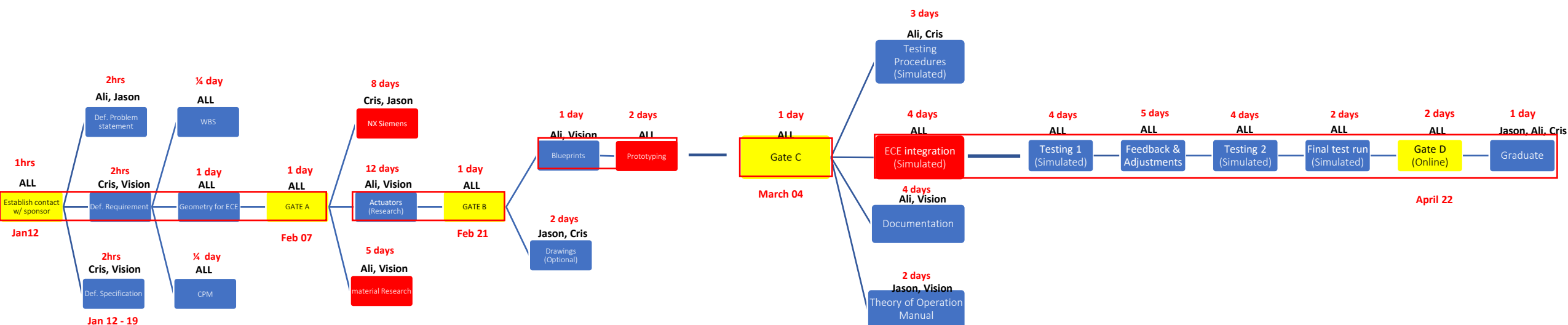
Affected activities include those that are individually assigned to certain group members & major activities (manufacturing)



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## CPM of NMR (Missing member and global pandemic)



Affected activities include those that are individually assigned to certain group members.

They also include activities that could be impacted by a global pandemic i.e., supply chain industry (as a result, manufacturing of design, acquiring equipment, integration, testing, etc... will all experience major setbacks and must be done via simulation)

