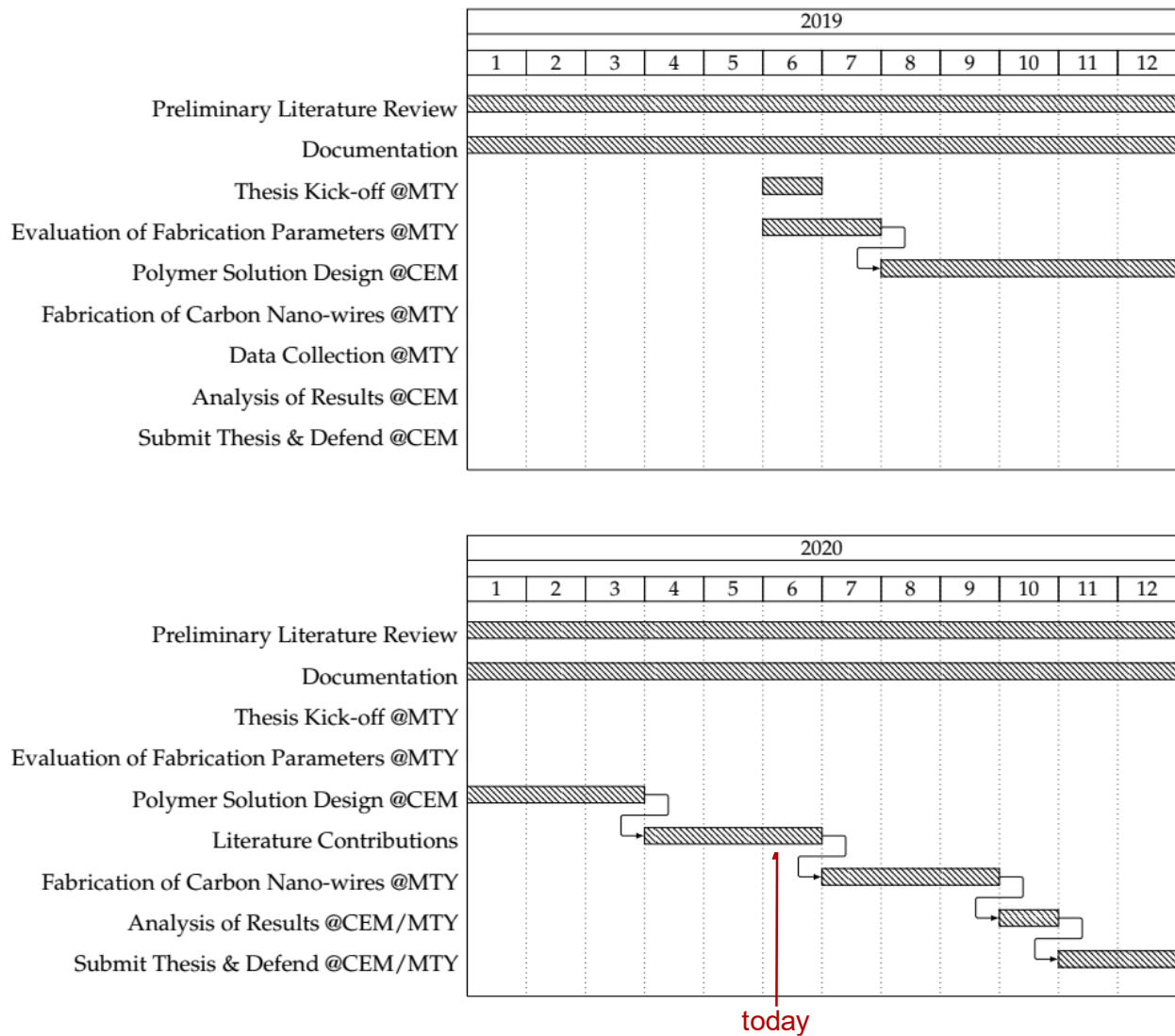


Semester Thesis Report and Update

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What semester are you in? How many semesters are there left to finish according to your project plans?

Currently in 3rd semester, one more to finish.

What goals were completed before the start of the last semester (before February 2020)?

- Thesis proposal (motivation, problem statement, hypothesis, objectives)
- Polymer & solvent selection to replace the SU-8 system for NFES
- Lab trainings at CEM & MTY
- Image analysis software for NFES review paper
- Tec-Nano (Electrospinning Oxygen-less Polymers to Fabricate Carbon-based Nanostructures)
- Preliminary Rheological Analysis

What goals were accomplished during this period?

- Participation in Saeed's paper (Exploring the effect of Mechanical Compressive Treatment in Electrical Conductivity of SU-8-based Carbon Structures) [Apr/2020]
- Writing of the article on NFES [due by the end of Jun/2020]
- Writing of the first three thesis chapters (Introduction, Near-Field Electrospinning as an Affordable Way to Gain Spatial Control, Selection of Compatible Polymer-Solvent Combinations for Near-Field Electrospinning and Pyrolysis)

What goals are left to finish in the remaining of your program?

- Writing of the collaborative paper (Controlling diameter of photopolymerizable micro fibers spun by low-voltage near-field electrospinning) [due before Nov/2020]
- Fabrication of fibres with NFES
- Study the fibres to compare with the ones of SU-8 (higher conductivity, thinner diameters, higher reproducibility)
- Work the missing rheological analysis
- Review & publish the articles