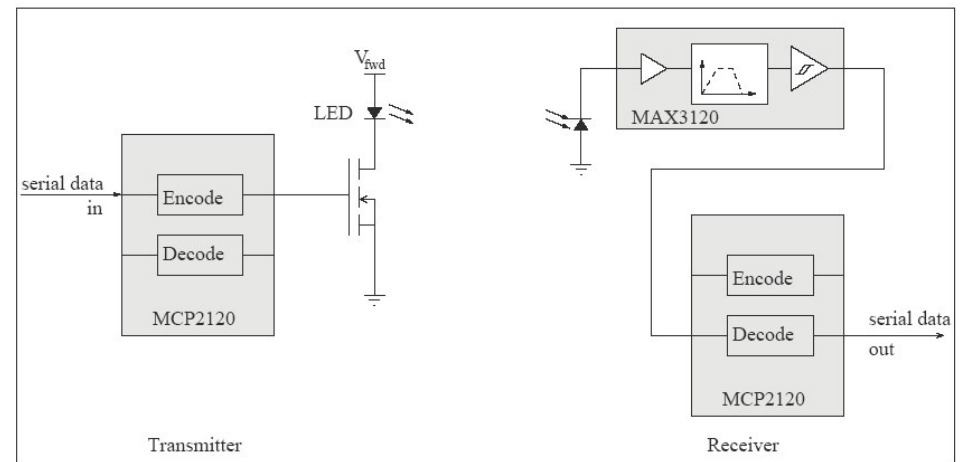


C5: Experiments on Optical Underwater Communication

Background

- Underwater data communication is challenging
- Traditional wireless communication radiations gets absorbed quickly + limited range
- Possible options include:
 - Underwater sound (sonar/modem)
 - Light Emitting Diodes (blue and white)
- Researchers have published successful serial based optical communication tools:



Felix Schill¹, Uwe R. Zimmer¹, Jochen Trumpf^{1,2}

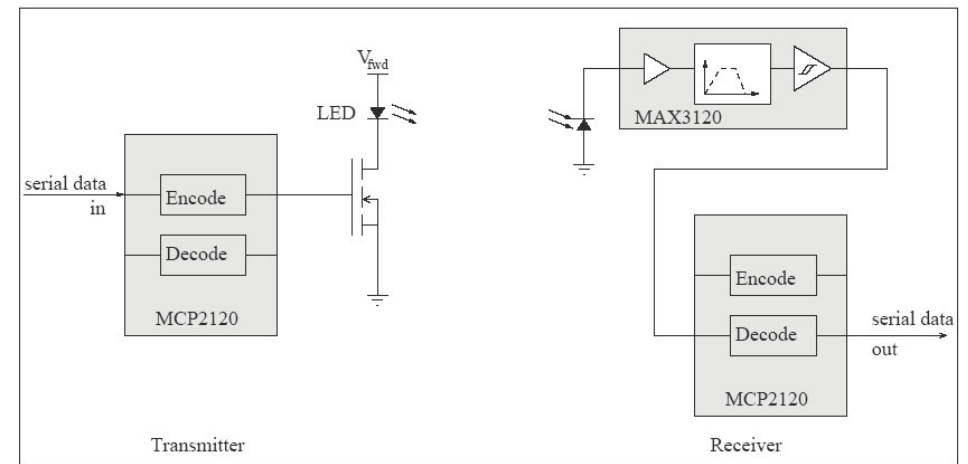
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C5: Experiments on Optical Underwater Communication

- Objectives:
 - Duplicate electronics to allow for optical serial underwater communication
 - Use two computers and test in pool/ocean environment



Help:

- Project advisors: Prof. de Callafon, callafon@ucsd.edu
- Course Advisor: Prof. de Callafon, callafon@ucsd.edu