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A System for the Precision Placement of SiPMs on proto-DUNE Photon Detector Readout Boards ANNE CHRISTENSEN, NORM BUCHANAN, MADELEINE JEKOT, DAVID WARNER, Colorado State Univ — The single-phase protoDUNE detector is a prototype of the proposed Deep Underground Neutrino Detector (DUNE) far detector technology. Silicon Photomultipliers (SiPMs) will be used to detect photons collected by the protoDUNE photon detectors. Strict design requirements dictate that the placement of the SiPMs on their readout boards must be extremely precise, about 100 microns in x and y coordinates. To achieve the desired precision, a Computer Numerical Control (CNC) machine is used. In this presentation I will discuss the placement system, including control software that has been developed.

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