## Acknowledgements

First and foremost, I would like to thank the Eastman Kodak Company for sponsoring this work, and for its continued support of the Leaders For Manufacturing Program. Specifically, thank you to Vincent Andrews, who as a tireless project champion, made my integration into the project team a tremendous success. In addition, I would like to thank Bix DeBaise and Ron Fish, who taught me an incredible amount about digital photography and manufacturing of electronics. In addition, their backing and support of my ideas were vital to the success of my internship. Also, the following individuals all played a major role in my internship: Paul Antos, Charlie Braun, Bill Carleton, Lori Cohen, Paul Conaway, Julie Cooke, Duane Courtney, Jim Cutaia, Dan Derleth, Eric Dilella, Gerry Edd, Doug Elliot, John Gilly, Dusty Gutoswki, Tim Keefe, Malini Krishnanmurti, Richard Kurchyne, Mike Marcus, Marty Maurinus, Rae Mawn, Jim Merriman, Mark Newhouse, Dave Osterhodt, Bruce Patnuade Patricia Reibstein, Eshetu Setgen, Mike Vaughn, Danny Vindigni, Dave Wakefield, and George Wambach. Also, I was extremely fortunate to work with a truly wonderful group of highly skilled operators: Farooq Abdullah, Bernie Bakewicz, Barry Bareham, Brian Barringer, Steve Beaman, Eugene Clement, Steve Coffey, George Giordano, Eun Lee, Kilcha Lim, Ron Martin, Larry Masseth, Desi Miller, Juanita Nelson, Blanche Nix, Vicky Olivnek, Jacquelyn Phan, Kerry Posick, Barb Randolph, Brian Roller, Ed Rounds, Barb Stephens, Jill Taylor, Chris Terenzi, Mary Toepper, Marty Turner, MaryLou Williams, Bock Yim. I tremendously enjoyed my time working at the Eastman Kodak Company and on the DCS Pro 14n project. I am proud to have been associated with this group of people and with such an awesome product. I wish you all well in the future.

Kind thanks also goes to my two thesis advisors: Jeremie Gallien from the Sloan School of Management and Dave Hardt of the School of Mechanical Engineering.

In addition, I would like to thank the Leaders For Manufacturing program for its support. I would specifically like to thank my LFM brethren (Eric Green, Ankur Goel, Christine Lindsey, and Eric White) who acted as a sounding board for several of my ideas.

Finally, I would like to thank my friends and family for their moral support and their editing help with this thesis.

I dedicate this thesis to Ariel Botta. Your continued support and love means everything to me.